



Appendix 1e Schedule of geological items - inner islands

Contents	Page
1.0 Introduction	3
2.0 Key to reasons for scheduling geological items	3
3.0 Disclaimer for all diagrams in appendix 1e	4
4.0 Diagrams of scheduled geological items	4
5.0 Diagrams of site surrounds for scheduled geological items.....	53

Plan modification annotations

 indicates where content is affected by proposed plan modification x. refer to plan modification folder or website for details.

 indicates where the content is part of plan modification x, which is subject to appeal.

Underlined content to be inserted.

~~Struck through~~ content to be deleted.

1.0 Introduction

This appendix contains key information about scheduled geological items. In particular it identifies:

- The location of scheduled items, including the site surrounds.
- The category (A or B) applying to each item.
- The reasons for scheduling each item.

Scheduled geological items are shown on the planning maps. [Part 7 - Heritage](#) contains the objectives, policies and rules applying to such items.

[Section 4.0](#) of this appendix contains diagrams of the scheduled items. Some items have been grouped within a common site surrounds. Those site surrounds diagrams are contained in [section 5.0](#).

The diagrams in sections 4.0 and 5.0 are ordered according to their planning map reference number.

2.0 Key to reasons for scheduling geological items

Each diagram includes a record of the reasons for scheduling the particular item. The reasons relate to the criteria identified in [appendix 4 - Criteria for scheduling heritage items](#). The list of reasons for scheduling geological items is as follows:

Letter	Reason
A/a	Geological significance
B/b	Rarity
C/c	Scientific potential
D/d	Representativeness
E/e	Diversity
F/f	Group
G/g	Visual contribution to the landscape
H/h	Setting
I/i	Intactness
J/j	Education and interpretation value
K/k	Community association with, or public esteem for
L/l	Association with geology-related events or industry, or the history of geology

The reasons are identified on each diagram in the following manner:

1. A capital letter (eg A, D, L) means that the scheduled item scored significantly (ie above the median) for this criteria.
2. A lower case letter (eg a, d, l) means that the scheduled item has scored moderately (ie below the median) for this criteria.
3. Where a letter is omitted, the scheduled item has not scored against this criteria.

3.0 Disclaimer for all diagrams in appendix 1e

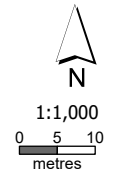
The scheduled items are defined by latitude and longitude coordinates. The polygon, shown on the diagrams as a green outline, is defined by the coordinates provided and forms the definitive identity and location of the scheduled item, with all other identifying information (address etc) being supplementary.

Some diagrams may include parts of an item extending below mean high water springs (MHWS). Areas below MHWS fall within the jurisdiction of the Auckland Regional Council, and are therefore outside the jurisdiction of this Plan. Any areas below MHWS are indicative and shown for information purposes only.

4.0 Diagrams of scheduled geological items



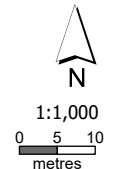


Geology	Name of item: Oneroa Beach fossils	Map reference: 2-1
UID : 4000 Island : Waiheke Feature type : Fragile exposures of geological material	Surrounds protected: N Description of item: Mudstone containing the deepest faunal assemblage of early Miocene fossils and sediments on Waiheke Island.	Reasons: A,B,C,D,E,f,I Category: B 
GPS points (NZTM)		Digitised points (NZTM)
1) G4000/1 E175 00 32.12863, S36 46 43.03559		1) D4000/1 E175 00 32.12304, S36 46 42.84100 2) D4000/2 E175 00 32.37053, S36 46 43.03110 3) D4000/3 E175 00 32.13421, S36 46 43.23018 4) D4000/4 E175 00 31.88713, S36 46 43.04007
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



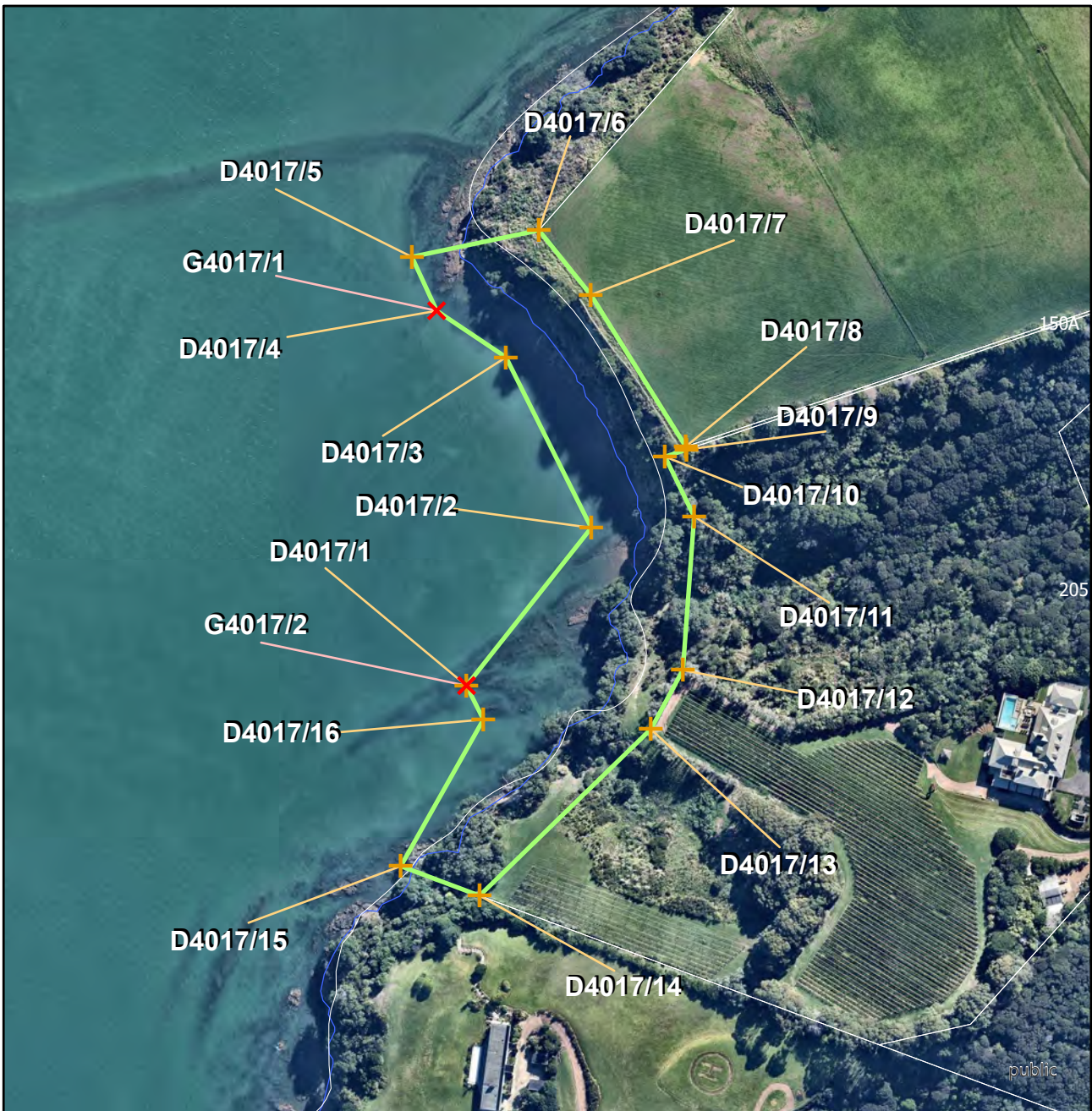
Geology		Name of item: Double U Bay fossils		Map reference: 2-2	
UID : 4004 Island : Waiheke Feature type : Fragile exposures of geological material		Surrounds protected: N Description of item: Type locality of 45 species of rare inner and midshelf fossil molluscs.		Reasons: A,B,c,D,E,f,g,I,j,k,l Category: B	
GPS points (NZTM) 1) G4004/1 E175 00 31.19629, S36 46 17.15447 2) G4004/2 E175 00 32.79002, S36 46 17.18620 3) G4004/3 E175 00 27.50798, S36 46 19.21890 4) G4004/4 E175 00 23.78542, S36 46 18.40212 5) G4004/5 E175 00 24.90782, S36 46 17.79266 6) G4004/6 E175 00 24.93776, S36 46 17.78172 7) G4004/7 E175 00 26.40267, S36 46 17.93463 8) G4004/8 E175 00 29.80877, S36 46 17.35157			Digitised points (NZTM) 1) D4004/1 E175 00 26.40267, S36 46 17.93463 2) D4004/2 E175 00 29.80877, S36 46 17.35157 3) D4004/3 E175 00 31.19629, S36 46 17.15447 4) D4004/4 E175 00 32.79002, S36 46 17.18620 5) D4004/5 E175 00 27.51106, S36 46 19.62154 6) D4004/6 E175 00 25.65441, S36 46 19.42399 7) D4004/7 E175 00 24.71338, S36 46 19.08613 8) D4004/8 E175 00 23.83910, S36 46 18.41735 9) D4004/9 E175 00 23.78542, S36 46 18.40212 10) D4004/10 E175 00 24.90782, S36 46 17.79266 11) D4004/11 E175 00 24.93776, S36 46 17.78172 12) D4004/12 E175 00 26.12890, S36 46 17.09441		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					

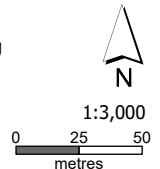


Geology	Name of item: Island Bay submarine volcanics	Map reference: 2-3
UID : 4054 Island : Waiheke Feature type : Exposures of geological material	Surrounds protected: N Description of item: An intertidal shore platform showing mesozoic folded cherts with associated sandstones and pillow lava.	Reasons: A,B,C,D,E,f,g,l Category: B 
GPS points (NZTM)		Digitised points (NZTM)
1) G4054/1 E175 00 11.93893, S36 46 07.54941 2) G4054/2 E175 00 13.40811, S36 46 09.16379 3) G4054/3 E175 00 12.18553, S36 46 09.21760 4) G4054/4 E175 00 10.88818, S36 46 09.66088 5) G4054/5 E175 00 10.15521, S36 46 09.03715		1) D4054/1 E175 00 10.15521, S36 46 09.03715 2) D4054/2 E175 00 09.18360, S36 46 07.26200 3) D4054/3 E175 00 11.87973, S36 46 05.86184 4) D4054/4 E175 00 13.51012, S36 46 06.68311 5) D4054/5 E175 00 14.22085, S36 46 07.96693 6) D4054/6 E175 00 14.32184, S36 46 09.12739 7) D4054/7 E175 00 13.40811, S36 46 09.16379 8) D4054/8 E175 00 12.18553, S36 46 09.21760 9) D4054/9 E175 00 10.88818, S36 46 09.66088
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		

This page is left blank intentionally.

Refer to the disclaimer at the beginning of this appendix.



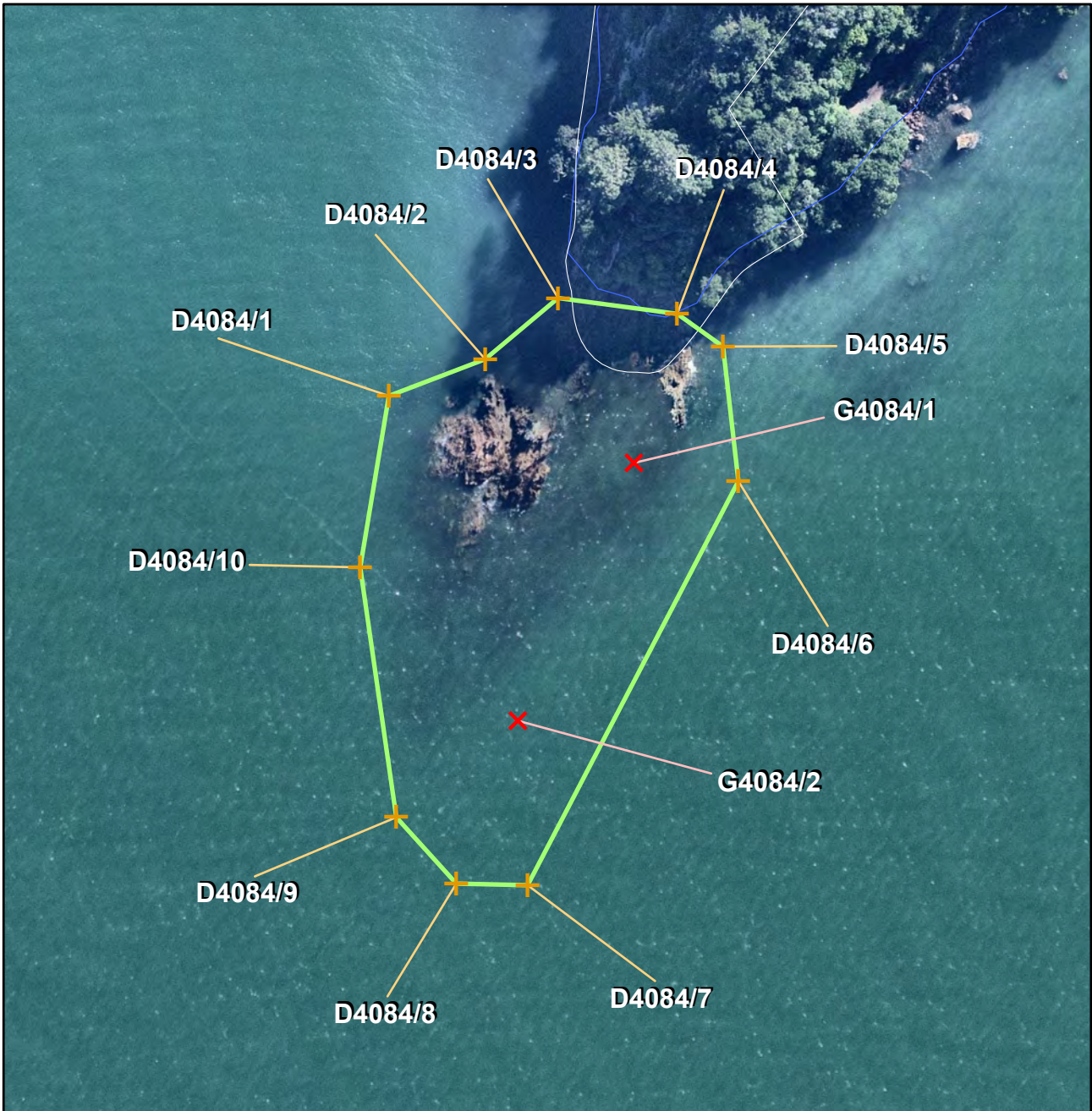
Geology	Name of item: Fossil Bay fossils and rock sequence	Map reference: 7-2
UID : 4017 Island : Waiheke Feature type : Fragile exposures of geological material	Surrounds protected: N Description of item: Fossil gravel beach and sedimentary rock assemblages, type locality for 6 molluscan fossils.	Reasons: A,B,C,D,E,F,g,I,J Category: A 
GPS points (NZTM)		Digitised points (NZTM)
1) G4017/1 E174 59 21.10582, S36 47 42.42378 2) G4017/2 E174 59 21.81940, S36 47 48.11877		1) D4017/1 E174 59 21.81940, S36 47 48.11877 2) D4017/2 E174 59 24.11711, S36 47 45.67655 3) D4017/3 E174 59 22.43582, S36 47 43.10994 4) D4017/4 E174 59 21.10583, S36 47 42.42410 5) D4017/5 E174 59 20.61790, S36 47 41.61082 6) D4017/6 E174 59 23.01150, S36 47 41.16473 7) D4017/7 E174 59 24.01585, S36 47 42.13270 8) D4017/8 E174 59 25.87132, S36 47 44.41119 9) D4017/9 E174 59 25.89159, S36 47 44.45690 10) D4017/10 E174 59 25.48500, S36 47 44.57438 11) D4017/11 E174 59 26.06047, S36 47 45.47139 12) D4017/12 E174 59 25.90682, S36 47 47.81251 13) D4017/13 E174 59 25.32230, S36 47 48.72405 14) D4017/14 E174 59 22.15025, S36 47 51.30957 15) D4017/15 E174 59 20.64735, S36 47 50.88683 16) D4017/16 E174 59 22.15387, S36 47 48.62888
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		

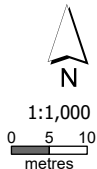


Geology		Name of item: Blackpool spilite pillow lava		Map reference: 8-1	
UID : 4016 Island : Waiheke Feature type : Exposures of geological material		Surrounds protected: N Description of item: Exposure of pillow lavas within a sedimentary sequence of argillite and greywacke, all thrust along a low angle fault.		Reasons: A,B,C,D,E,f,g,l,j Category: B	
GPS points (NZTM)			Digitised points (NZTM)		
1) G4016/1 E175 00 18.86410, S36 48 00.48240 2) G4016/2 E175 00 19.44198, S36 48 01.14663 3) G4016/3 E175 00 18.42731, S36 48 02.81289 4) G4016/4 E175 00 18.16277, S36 48 02.67761 5) G4016/5 E175 00 18.24320, S36 48 02.06250			1) G4016/1 E175 00 18.86410, S36 48 00.48240 2) G4016/2 E175 00 19.44198, S36 48 01.14663 3) G4016/3 E175 00 18.42731, S36 48 02.81289 4) G4016/4 E175 00 18.16277, S36 48 02.67761 5) G4016/5 E175 00 18.24320, S36 48 02.06250		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					



Geology	Name of item: The Sisters double top hat island	Map reference: 9-1
UID : 4138 Island : Waiheke Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: Best example of a double top hat island in the region and an excellent example of a high tide rock platform.	Reasons: A,B,D,e,f,G,H,I,j,k Category: B
GPS points (NZTM)		Digitised points (NZTM)
<p>Refer to the disclaimer at the beginning of this appendix.</p>		1) D4138/1 E175 01 57.44657, S36 48 48.67728 2) D4138/2 E175 01 53.94193, S36 48 47.89837 3) D4138/3 E175 01 49.13910, S36 48 49.73906 4) D4138/4 E175 01 48.05718, S36 48 51.73227 5) D4138/5 E175 01 44.77934, S36 48 50.42400 6) D4138/6 E175 01 47.23121, S36 48 49.21766 7) D4138/7 E175 01 48.45782, S36 48 49.09733 8) D4138/8 E175 01 52.27070, S36 48 47.56335 9) D4138/9 E175 01 56.91517, S36 48 45.10742 10) D4138/10 E175 01 58.02188, S36 48 45.62597



Geology	Name of item: Pohutukawa Point chert stack	Map reference: 15-1
UID : 4084 Island : Waiheke Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: This small stack is composed of hard, erosion-resistant, red chert with tight folds.	Reasons: a,B,C,D,E,f,G,H,I,j,k Category: B <div style="text-align: right;">  <p>1:1,000 0 5 10 metres</p> </div>
GPS points (NZTM)		Digitised points (NZTM)
1) G4084/1 E175 03 25.03680, S36 49 20.28659 2) G4084/2 E175 03 24.33975, S36 49 21.60721		1) D4084/1 E175 03 23.48214, S36 49 19.97341 2) D4084/2 E175 03 24.08503, S36 49 19.77669 3) D4084/3 E175 03 24.53665, S36 49 19.45920 4) D4084/4 E175 03 25.26934, S36 49 19.52572 5) D4084/5 E175 03 25.58385, S36 49 19.68628 6) D4084/6 E175 03 25.69832, S36 49 20.36847 7) D4084/7 E175 03 24.42355, S36 49 22.44087 8) D4084/8 E175 03 23.97427, S36 49 22.43966 9) D4084/9 E175 03 23.58599, S36 49 22.10987 10) D4084/10 E175 03 23.32450, S36 49 20.84605
Refer to the disclaimer at the beginning of this appendix.		

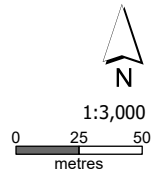


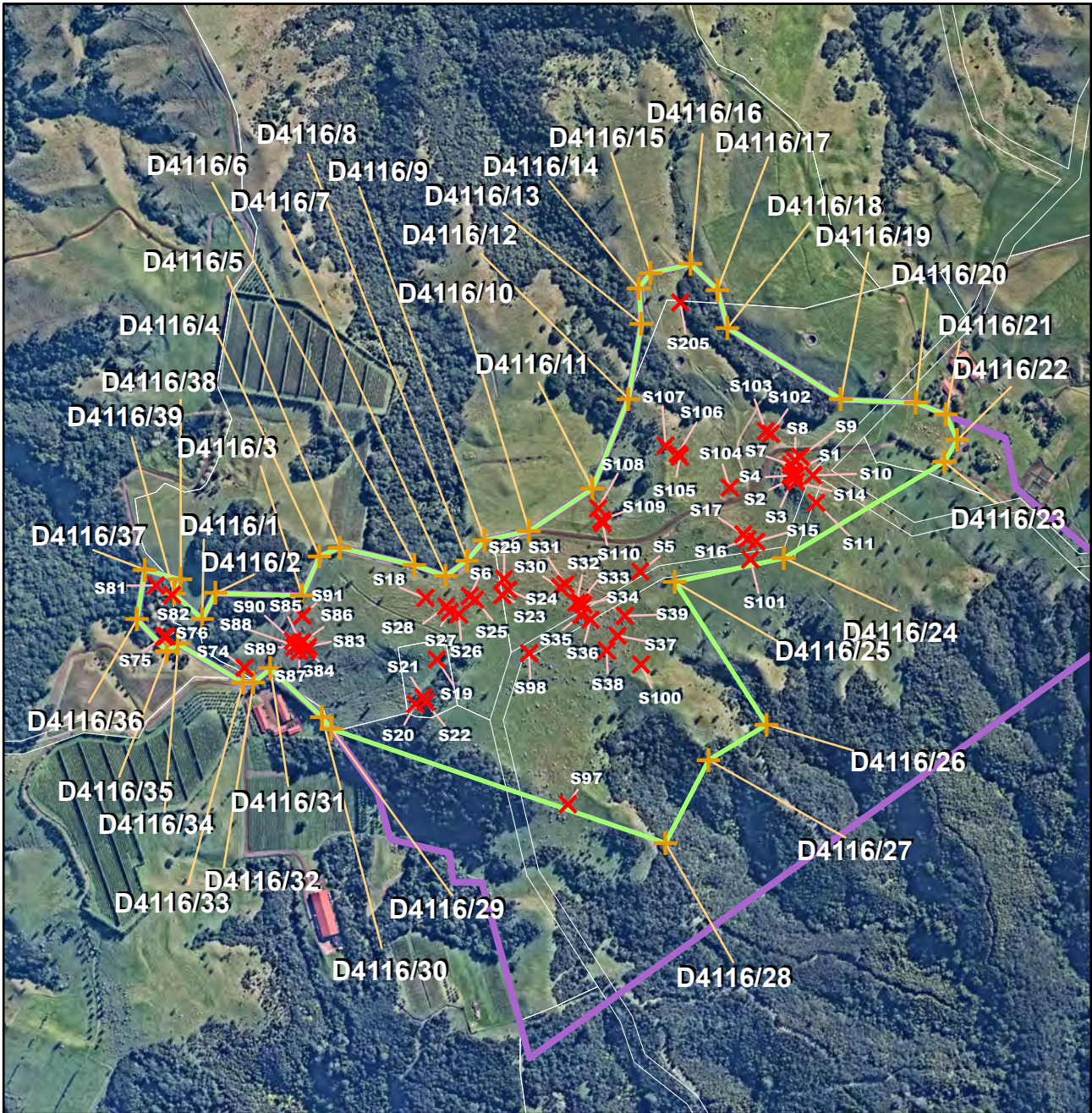
Geology	Name of item: Te Matuku Bay shell spit and tidal marsh	Map reference: 20-1
UID : 4021 Island : Waiheke Feature type : Dynamic landforms and features	Surrounds protected: N Description of item: Exemplary example of an intertidal-high tidal spit. The spit is an 800m long, 5-10m wide ribbon of sand and cockle shells that has built up in just the last few thousand years.	Reasons: A,B,c,D,f,G,H,I,j Category: B
GPS points (NZTM)		Digitised points (NZTM)
1) G4021/1 E175 08 00.79608, S36 50 08.82600 2) G4021/2 E175 08 04.02953, S36 50 09.38982 3) G4021/3 E175 08 08.11129, S36 50 10.71480 4) G4021/4 E175 08 12.59246, S36 50 12.48100 5) G4021/5 E175 08 21.57673, S36 50 17.47084 6) G4021/6 E175 08 21.91225, S36 50 17.98896 7) G4021/7 E175 08 21.56675, S36 50 25.40612 8) G4021/8 E175 08 17.64538, S36 50 24.50582 9) G4021/9 E175 08 19.47964, S36 50 17.69055 10) G4021/10 E175 08 11.59209, S36 50 12.66777 11) G4021/11 E175 08 00.38814, S36 50 09.19161		1) D4021/1 E175 08 00.38805, S36 50 09.18869 2) D4021/2 E175 08 00.79609, S36 50 08.82632 3) D4021/3 E175 08 04.02953, S36 50 09.38982 4) D4021/4 E175 08 08.11129, S36 50 10.71480 5) D4021/5 E175 08 12.59246, S36 50 12.48100 6) D4021/6 E175 08 21.57673, S36 50 17.47084 7) D4021/7 E175 08 21.91225, S36 50 17.98896 8) D4021/8 E175 08 21.56675, S36 50 25.40612 9) D4021/9 E175 08 17.64497, S36 50 24.50582 10) D4021/10 E175 08 19.47964, S36 50 17.69055 11) D4021/11 E175 08 11.59201, S36 50 12.66518
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



Geology	Name of item: Gannet Rock red chert	Map reference: 21-1
UID : 4109 Island : Horuhoru Rock (Gannet Rock) Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: Small islet off the north-east corner of Waiheke Island composed entirely of erosion resistant, extremely well-exposed Waipapa Terrane red chert with tight folding.	Reasons: a,B,C,D,E,f,g,H,I,j,k Category: B <div style="text-align: right;"> 1:3,000 </div>
GPS points (NZTM)		Digitised points (NZTM)
<p style="color: red; font-weight: bold;">Refer to the disclaimer at the beginning of this appendix.</p>		1) D4109/1 E175 10 14.76694, S36 43 23.35502 2) D4109/2 E175 10 18.79489, S36 43 23.25220 3) D4109/3 E175 10 19.10838, S36 43 32.38989 4) D4109/4 E175 10 15.03729, S36 43 32.47085

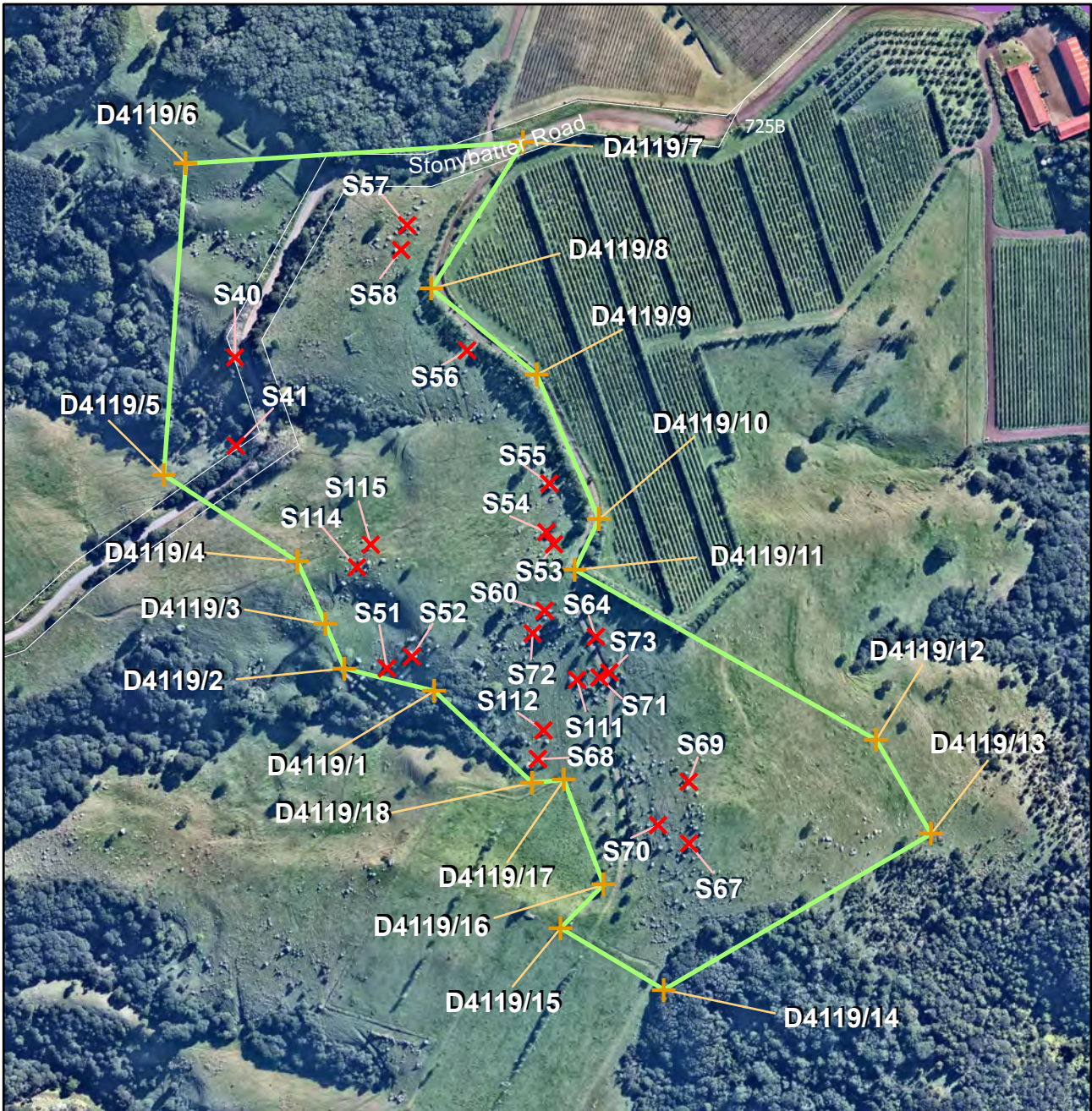


Geology	Name of item: Thumb Point tombolo	Map reference: 21-2
UID : 4141 Island : Waiheke Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: Supratidal tombolo - a rare example of a fully developed gravel tombolo linking a small island to the mainland.	Reasons: A,B,D,f,g,H,I,j Category: B <div style="text-align: right;">  1:3,000 0 25 50 metres </div>
GPS points (NZTM)		Digitised points (NZTM)
<p style="color: red; font-weight: bold;">Refer to the disclaimer at the beginning of this appendix.</p>		1) D4141/1 E175 10 08.88690, S36 44 31.42563 2) D4141/2 E175 10 13.01889, S36 44 33.33243 3) D4141/3 E175 10 10.81603, S36 44 35.75112 4) D4141/4 E175 10 09.70080, S36 44 39.81249 5) D4141/5 E175 10 03.41585, S36 44 35.47844 6) D4141/6 E175 10 05.67800, S36 44 34.63019



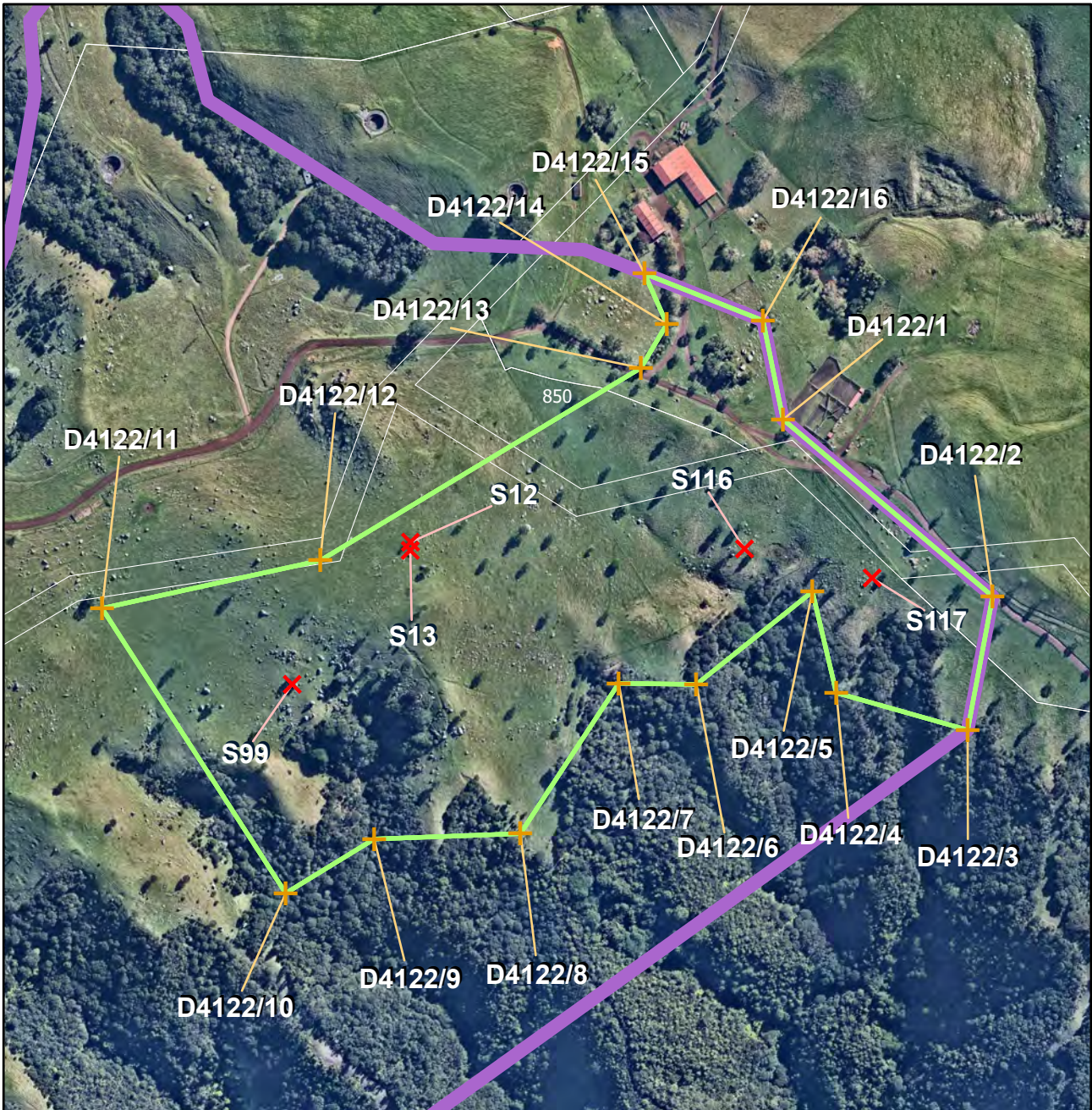
Geology		Name of item: Stony Batter 1		Map reference: 23-1	
UID : 4116 Island : Waiheke		Surrounds protected: Y		Reasons: A,B,c,D,E,G,H,I,J,K	
Feature type : Boulder fields		Description of item: The most prominent area of the boulder field containing excellent examples of the full range of significant boulders		Category: A	
GPS points (NZTM)				Digitised points (NZTM)	
1) S1 E175 10 28.65686, S36 45 49.34119 2) S2 E175 10 28.68594, S36 45 49.59080 3) S3 E175 10 28.73470, S36 45 49.57225 4) S4 E175 10 28.45379, S36 45 49.50458 5) S5 E175 10 19.11779, S36 45 54.55995 6) S6 E175 10 08.41282, S36 45 55.99798 7) S7 E175 10 28.46917, S36 45 48.97078 8) S8 E175 10 28.69103, S36 45 48.73660 9) S9 E175 10 29.05461, S36 45 48.55661 10) S10 E175 10 29.86418, S36 45 49.47704 11) S11 E175 10 30.10914, S36 45 50.86622 12) S14 E175 10 28.80618, S36 45 49.82756 13) S15 E175 10 26.38075, S36 45 52.90432 14) S16 E175 10 25.82733, S36 45 52.79791 15) S17 E175 10 25.59909, S36 45 52.54886 16) S18 E175 10 08.62369, S36 45 56.13980 17) S19 E175 10 06.42800, S36 45 59.24817 18) S20 E175 10 05.14410, S36 46 01.53649 19) S21 E175 10 05.63094, S36 46 01.18281 20) S22 E175 10 05.78588, S36 46 01.42050 21) S23 E175 10 10.45481, S36 45 55.91595 22) S24 E175 10 10.81856, S36 45 55.62601 23) S25 E175 10 08.74877, S36 45 56.16707 24) S26 E175 10 07.73954, S36 45 56.93712 25) S27 E175 10 07.17558, S36 45 56.82927 26) S28 E175 10 06.93309, S36 45 56.53848 27) S29 E175 10 10.55502, S36 45 55.08419 28) S30 E175 10 14.08796, S36 45 55.45473 29) S31 E175 10 14.42170, S36 45 55.29036 30) S32 E175 10 15.13964, S36 45 56.21970 31) S33 E175 10 15.38186, S36 45 56.18728 32) S34 E175 10 15.59723, S36 45 56.30467 33) S35 E175 10 15.46494, S36 45 56.81517 34) S36 E175 10 16.04690, S36 45 57.06186 35) S37 E175 10 17.78537, S36 45 57.83648 36) S38 E175 10 17.10614, S36 45 58.59511 37) S39 E175 10 18.21492, S36 45 56.81610 38) S74 E175 09.54.31881, S36 45 59.88553 39) S75 E175 09.49.21062, S36 45 58.40683 40) S76 E175 09.49.35991, S36 45 58.38212 41) S81 E175 09.48.62118, S36 45 55.81569 42) S82 E175 09.49.64139, S36 45 56.28053 43) S83 E175 09.58.30758, S36 45 58.74920 44) S84 E175 09.58.20791, S36 45 58.94427 45) S85 E175 09.57.81184, S36 45 58.59066 46) S86 E175 09.57.93261, S36 45 58.53049 47) S87 E175 09.57.74318, S36 45 58.99409 48) S88 E175 09.57.50626, S36 45 58.72654 49) S89 E175 09.57.41929, S36 45 58.79707 50) S90 E175 09.57.32353, S36 45 58.47707 51) S91 E175 09.57.89043, S36 45 57.18560 52) S97 E175 10 14.88883, S36 46 06.44114 53) S98 E175 10 12.23891, S36 45 58.82656 54) S100 E175 10 19.29852, S36 45 59.26916 55) S101 E175 10 26.03378, S36 45 53.81566 56) S102 E175 10 27.14962, S36 45 47.42037 57) S103 E175 10 26.83772, S36 45 47.29843 58) S104 E175 10 24.64319, S36 45 50.19858 59) S105 E175 10 21.44676, S36 45 48.69310 60) S106 E175 10 21.31983, S36 45 48.53988 61) S107 E175 10 20.53194, S36 45 48.14121 62) S108 E175 10 16.36170, S36 45 51.30806 63) S109 E175 10 16.59820, S36 45 51.98401 64) S110 E175 10 16.67999, S36 45 52.15112 65) S205 E175 10 21.25956, S36 45 50.87201				12) D4116/12 E175 10 18.12761, S36 45 45.80961 13) D4116/13 E175 10 18.83742, S36 45 41.98930 14) D4116/14 E175 10 18.62410, S36 45 40.18541 15) D4116/15 E175 10 19.34913, S36 45 38.40964 16) D4116/16 E175 10 21.85580, S36 45 38.91566 17) D4116/17 E175 10 23.58957, S36 45 40.18133 18) D4116/18 E175 10 24.27923, S36 45 42.10259 19) D4116/19 E175 10 31.52045, S36 45 45.60534 20) D4116/20 E175 10 36.24726, S36 45 45.67955 21) D4116/21 E175 10 38.17228, S36 45 46.25274 22) D4116/22 E175 10 38.91270, S36 45 47.51583 23) D4116/23 E175 10 38.12485, S36 45 48.64595 24) D4116/24 E175 10 28.16039, S36 45 53.70567 25) D4116/25 E175 10 21.31940, S36 45 55.04432 26) D4116/26 E175 10 27.30782, S36 45 02.16183 27) D4116/27 E175 10 23.70247, S36 45 04.03616 28) D4116/28 E175 10 21.09574, S36 45 08.28928 29) D4116/29 E175 09.59.88673, S36 45 02.89382 30) D4116/30 E175 09.59.28165, S36 45 02.30197 31) D4116/31 E175 09.55.94427, S36 45 59.89860 32) D4116/32 E175 09.54.90262, S36 45 00.63909 33) D4116/33 E175 09.54.25465, S36 45 00.64550 34) D4116/34 E175 09.50.09989, S36 45 58.75455 35) D4116/35 E175 09.49.41785, S36 45 59.13901 36) D4116/36 E175 09.47.47511, S36 45 57.55512 37) D4116/37 E175 09.47.89983, S36 45 55.03500 38) D4116/38 E175 09.50.17144, S36 45 55.49539 39) D4116/39 E175 09.49.79139, S36 45 56.22693 1) D4116/1 E175 09 51.58437, S36 45 57.46526 2) D4116/2 E175 09 52.38580, S36 45 56.13994 3) D4116/3 E175 09 57.84947, S36 45 56.16877 4) D4116/4 E175 09 58.88344, S36 45 54.14403 5) D4116/5 E175 10 00.15460, S36 45 53.69361 6) D4116/6 E175 10 04.89776, S36 45 54.49182 7) D4116/7 E175 10 06.86773, S36 45 55.00519 8) D4116/8 E175 10 08.19807, S36 45 54.18493 9) D4116/9 E175 10 09.26126, S36 45 53.15062 10) D4116/10 E175 10 12.06113, S36 45 52.62522 11) D4116/11 E175 10 15.98411, S36 45 50.41982	

Refer to the disclaimer at the beginning of this appendix.

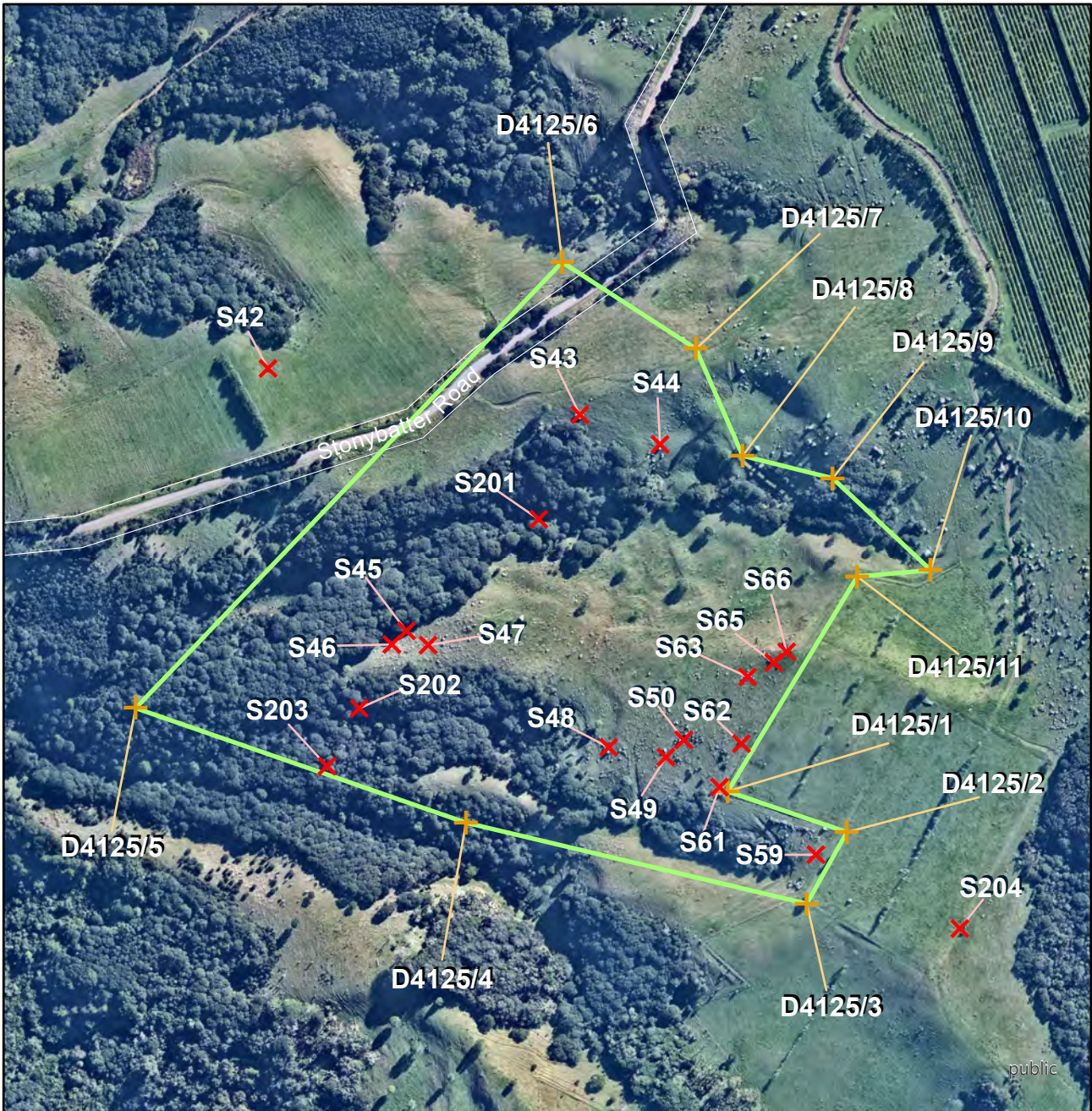


Geology		Name of item: Stony Batter 2		Map reference: 23-2	
UID : 4119 Island : Waiheke Feature type : Boulder fields		Surrounds protected: N Description of item: Highly visible boulder field containing significant boulders showing excellent examples of fluting and cracking		Reasons: A,B,c,D,E,G,i,j,k Category: A	
GPS points (NZTM)			Digitised points (NZTM)		
1) S40 E175 09 35.64935, S36 46 08.07535 2) S41 E175 09 35.72081, S36 46 09.86552 3) S51 E175 09 39.65338, S36 46 14.31524 4) S52 E175 09 40.27697, S36 46 14.06631 5) S53 E175 09 43.79563, S36 46 11.71865 6) S54 E175 09 43.59665, S36 46 11.47825 7) S55 E175 09 43.64457, S36 46 10.49047 8) S56 E175 09 41.49400, S36 46 07.82781 9) S57 E175 09 39.90908, S36 46 05.31356 10) S58 E175 09 39.77133, S36 46 05.81928 11) S60 E175 09 43.59517, S36 46 13.07193 12) S64 E175 09 44.90471, S36 46 13.57841 13) S67 E175 09 47.37053, S36 46 17.72913 14) S68 E175 09 43.51260, S36 46 16.08336 15) S69 E175 09 47.32805, S36 46 16.47771 16) S70 E175 09 46.57733, S36 46 17.36880 17) S71 E175 09 45.01426, S36 46 14.40015 18) S72 E175 09 43.31024, S36 46 13.53936 19) S73 E175 09 45.26431, S36 46 14.29426 20) S111 E175 09 44.45376, S36 46 14.45835 21) S112 E175 09 43.63589, S36 46 15.50102 22) S114 E175 09 38.84056, S36 46 12.27694 23) S115 E175 09 39.17794, S36 46 11.80944			1) D4119/1 E175 09 40.86474, S36 46 14.75067 2) D4119/2 E175 09 38.58145, S36 46 14.33491 3) D4119/3 E175 09 38.08469, S36 46 13.44719 4) D4119/4 E175 09 37.34133, S36 46 12.18665 5) D4119/5 E175 09 33.92126, S36 46 10.49088 6) D4119/6 E175 09 34.29466, S36 46 04.16275 7) D4119/7 E175 09 42.79249, S36 46 03.57532 8) D4119/8 E175 09 40.56699, S36 46 06.58942 9) D4119/9 E175 09 43.26873, S36 46 08.28709 10) D4119/10 E175 09 44.91876, S36 46 11.18620 11) D4119/11 E175 09 44.33557, S36 46 12.22582 12) D4119/12 E175 09 52.03111, S36 46 15.54044 13) D4119/13 E175 09 53.46816, S36 46 17.42481 14) D4119/14 E175 09 46.81981, S36 46 20.70542 15) D4119/15 E175 09 44.18068, S36 46 19.50140 16) D4119/16 E175 09 45.24143, S36 46 18.60480 17) D4119/17 E175 09 44.18309, S36 46 16.49351 18) D4119/18 E175 09 43.38506, S36 46 16.56681		

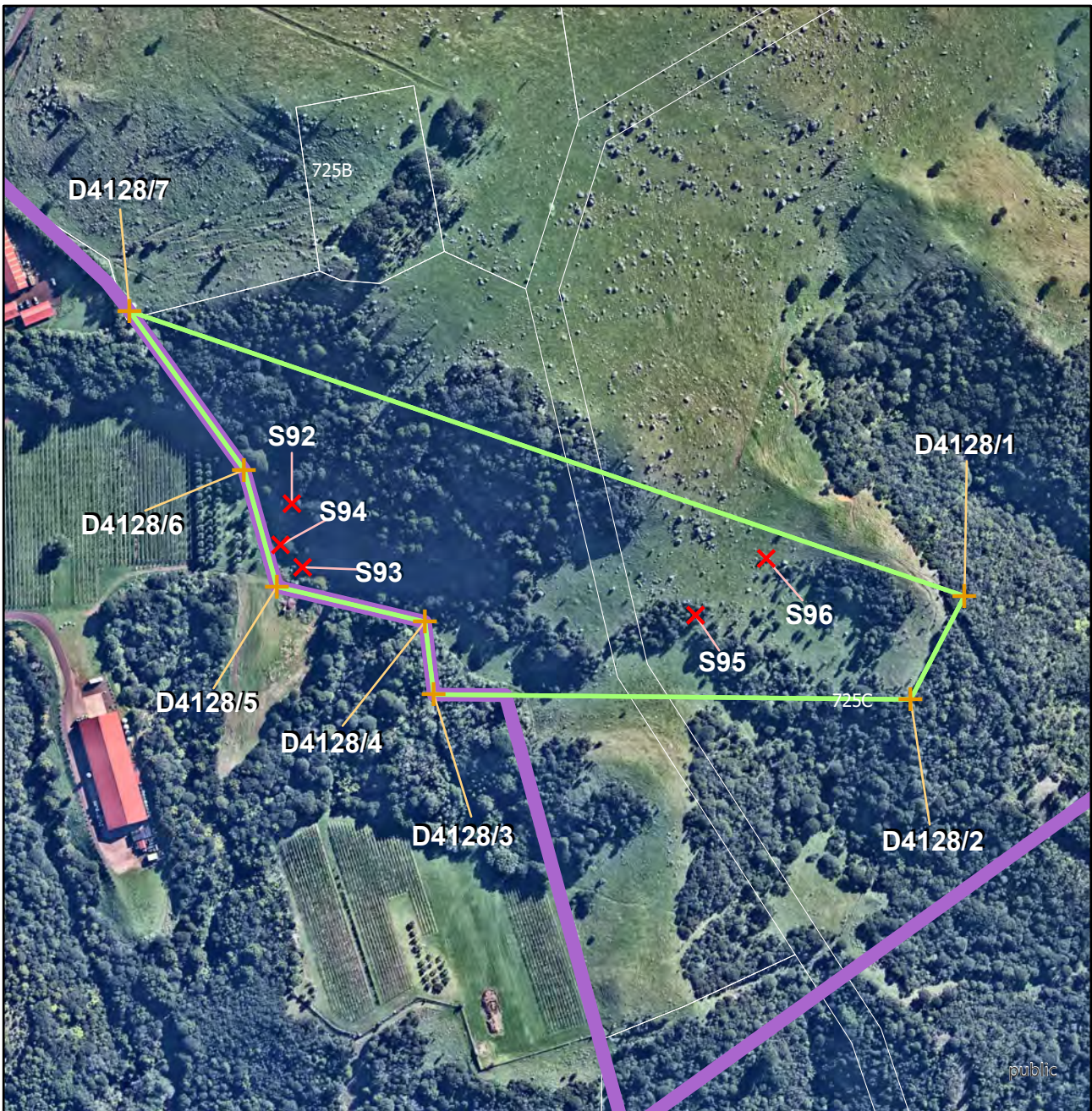
Refer to the disclaimer at the beginning of this appendix.



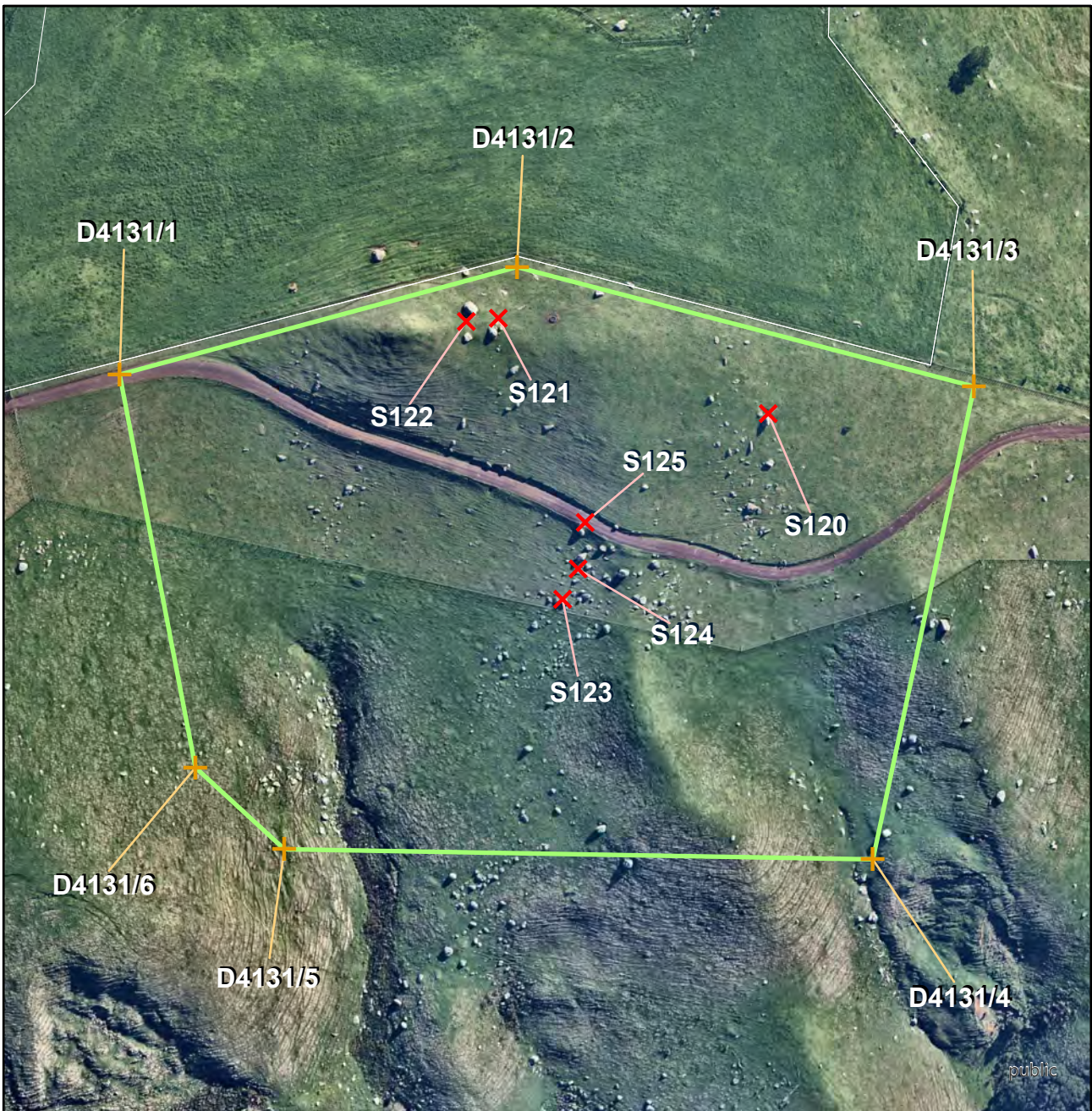
Geology		Name of item: Stony Batter 3	Map reference: 23-3
UID : 4122 Island : Waiheke Feature type : Boulder fields		Surrounds protected: Y Description of item: Exemplary examples of fluting and cracking in large basalt boulders. Numerous small and large boulders over south-facing slopes.	Reasons: A,B,c,D,E,g,l,j,k Category: B
GPS points (NZTM) 1) S12 E175 10 30.98846, S36 45 53.19288 2) S13 E175 10 30.98643, S36 45 53.40158 3) S99 E175 10 27.36288, S36 45 56.86380 4) S116 E175 10 41.51799, S36 45 53.17080 5) S117 E175 10 45.55971, S36 45 53.83332		Digitised points (NZTM) 1) D4122/1 E175 10 42.63701, S36 45 49.86373 2) D4122/2 E175 10 49.36974, S36 45 54.22852 3) D4122/3 E175 10 48.68091, S36 45 57.63245 4) D4122/4 E175 10 44.51580, S36 45 56.76441 5) D4122/5 E175 10 43.68824, S36 45 54.21153 6) D4122/6 E175 10 40.09794, S36 45 56.63088 7) D4122/7 E175 10 37.65505, S36 45 56.64796 8) D4122/8 E175 10 34.66113, S36 46 00.51399 9) D4122/9 E175 10 30.05646, S36 46 00.73293 10) D4122/10 E175 10 27.30782, S36 46 02.16183 11) D4122/11 E175 10 21.31840, S36 45 55.04432 12) D4122/12 E175 10 28.16039, S36 45 53.70567 13) D4122/13 E175 10 38.12485, S36 45 48.64595 14) D4122/14 E175 10 38.91270, S36 45 47.51583 15) D4122/15 E175 10 38.17228, S36 45 46.25274 16) D4122/16 E175 10 41.93810, S36 45 47.37448	
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>			

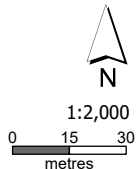


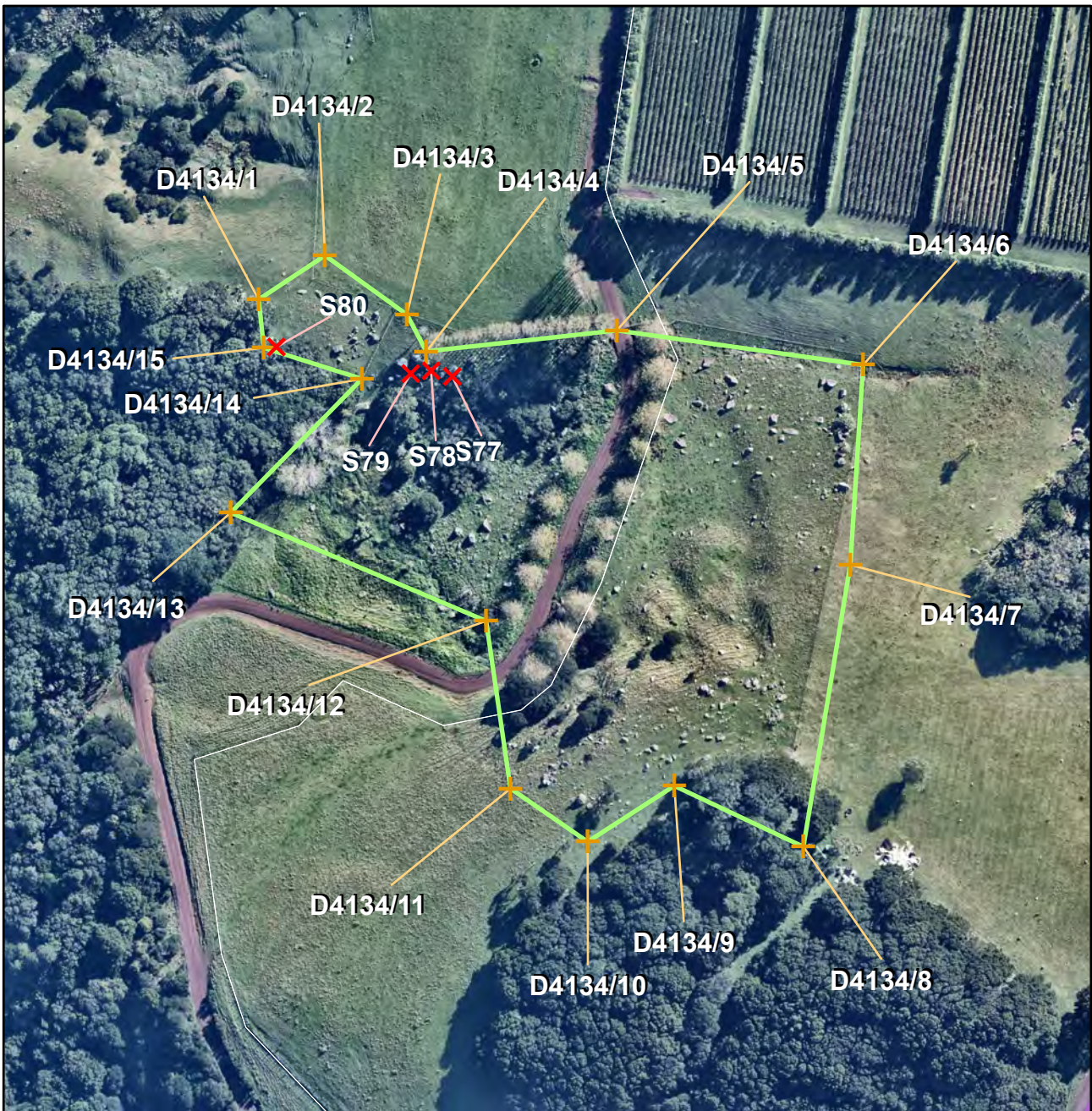
Geology		Name of item: Stony Batter 4		Map reference: 23-4	
UID : 4125 Island : Waiheke Feature type : Boulder fields		Surrounds protected: N Description of item: Contiguous lower part of the second most important area of boulders, with numerous significant boulders showing variously developed fluting and cracking. A few have native vegetation still on top of them.		Reasons: A,B,c,D,E,h,I,j,k Category: B	
GPS points (NZTM)			Digitised points (NZTM)		
1) S42 E175 09 26.56492, S36 46 12.78316 2) S43 E175 09 34.45445, S36 46 13.57900 3) S44 E175 09 36.49024, S36 46 14.14507 4) S45 E175 09 30.20360, S36 46 18.04388 5) S46 E175 09 29.84192, S36 46 18.32494 6) S47 E175 09 30.75827, S36 46 18.32168 7) S48 E175 09 35.36900, S36 46 20.31445 8) S49 E175 09 36.81675, S36 46 20.48689 9) S50 E175 09 37.25597, S36 46 20.13030 10) S59 E175 09 40.65333, S36 46 22.39568 11) S61 E175 09 38.18431, S36 46 21.06948 12) S62 E175 09 38.71277, S36 46 20.17730 13) S63 E175 09 38.83087, S36 46 18.82079 14) S65 E175 09 39.48316, S36 46 18.51999 15) S66 E175 09 39.80014, S36 46 18.29433 16) S201 E175 09 33.47575, S36 46 15.71778 17) S202 E175 09 29.05759, S36 46 19.63463 18) S203 E175 09 28.27724, S36 46 20.82418 19) S204 E175 09 44.32488, S36 46 23.82842			1) D4125/1 E175 09 38.39409, S36 46 21.14903 2) D4125/2 E175 09 41.42227, S36 46 21.92642 3) D4125/3 E175 09 40.44998, S36 46 23.39271 4) D4125/4 E175 09 31.81698, S36 46 21.90787 5) D4125/5 E175 09 23.42310, S36 46 19.73277 6) D4125/6 E175 09 33.92126, S36 46 10.49088 7) D4125/7 E175 09 37.34133, S36 46 12.18665 8) D4125/8 E175 09 38.58145, S36 46 14.33491 9) D4125/9 E175 09 40.86474, S36 46 14.75067 10) D4125/10 E175 09 43.38506, S36 46 16.56681 11) D4125/11 E175 09 41.54083, S36 46 16.73619		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					



Geology		Name of item: Stony Batter 5	Map reference: 23-5
UID : 4128 Island : Waiheke Feature type : Boulder fields		Surrounds protected: Y Description of item: Contiguous lower part of the most important area of boulders. A good example of boulder field containing numerous boulders, including identified significant boulders.	Reasons: A,B,c,d,e,h,i,k Category: B
GPS points (NZTM) 1) S92 E175 10 04.08890, S36 46 06.72301 2) S93 E175 10 04.39468, S36 46 08.00845 3) S94 E175 10 03.82437, S36 46 07.56388 4) S95 E175 10 14.32746, S36 46 08.79982 5) S96 E175 10 16.07665, S36 46 07.61714		Digitised points (NZTM) 1) D4128/1 E175 10 21.09574, S36 46 08.28928 2) D4128/2 E175 10 19.79582, S36 46 10.41057 3) D4128/3 E175 10 07.77044, S36 46 10.52586 4) D4128/4 E175 10 07.50905, S36 46 09.05846 5) D4128/5 E175 10 03.75928, S36 46 08.41084 6) D4128/6 E175 10 02.86521, S36 46 06.05749 7) D4128/7 E175 09 59.88673, S36 46 02.89382	
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>			



Geology	Name of item: Stony Batter 6	Map reference: 23-6
UID : 4131 Island : Waiheke Feature type : Boulder fields	Surrounds protected: N Description of item: Six significant boulders scattered throughout this area with moderately well-developed fluting.	Reasons: A,B,d,e,i,k Category: B 
GPS points (NZTM)		Digitised points (NZTM)
1) S120 E175 10 55.61235, S36 45 37.25400 2) S121 E175 10 52.18322, S36 45 36.34890 3) S122 E175 10 51.78118, S36 45 36.38973 4) S123 E175 10 53.07442, S36 45 39.18508 5) S124 E175 10 53.26038, S36 45 38.87339 6) S125 E175 10 53.33728, S36 45 38.40002		1) D4131/1 E175 10 47.42805, S36 45 37.00817 2) D4131/2 E175 10 52.40575, S36 45 35.82458 3) D4131/3 E175 10 58.19926, S36 45 36.93084 4) D4131/4 E175 10 57.05917, S36 45 41.75057 5) D4131/5 E175 10 49.63878, S36 45 41.78411 6) D4131/6 E175 10 48.49662, S36 45 40.97691
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



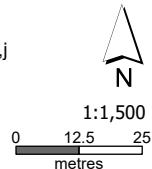
Geology		Name of item: Stony Batter 7		Map reference: 23-7	
UID : 4134 Island : Waiheke Feature type : Boulder fields		Surrounds protected: N Description of item: Good sample of boulder field. Five boulders with fluting and one with iconic fluting and original vegetation growing on top of it.		Reasons: A,B,d,E Category: B	
GPS points (NZTM) 1) S77 E175 09 50.31829, S36 45 47.50443 2) S78 E175 09 50.04886, S36 45 47.45171 3) S79 E175 09 49.79216, S36 45 47.48505 4) S80 E175 09 48.09205, S36 45 47.24531			Digitised points (NZTM) 1) D4134/1 E175 09 47.85514, S36 45 46.76748 2) D4134/2 E175 09 48.67782, S36 45 46.30492 3) D4134/3 E175 09 49.72780, S36 45 46.88664 4) D4134/4 E175 09 49.98195, S36 45 47.25606 5) D4134/5 E175 09 52.37662, S36 45 46.99846 6) D4134/6 E175 09 55.49363, S36 45 47.29143 7) D4134/7 E175 09 55.38788, S36 45 49.32170 8) D4134/8 E175 09 54.87685, S36 45 52.19369 9) D4134/9 E175 09 53.23254, S36 45 51.60531 10) D4134/10 E175 09 52.15713, S36 45 52.19135 11) D4134/11 E175 09 51.16990, S36 45 51.67037 12) D4134/12 E175 09 50.81411, S36 45 49.97606 13) D4134/13 E175 09 47.56443, S36 45 48.93642 14) D4134/14 E175 09 49.18108, S36 45 47.54912 15) D4134/15 E175 09 47.93306, S36 45 47.25593		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					

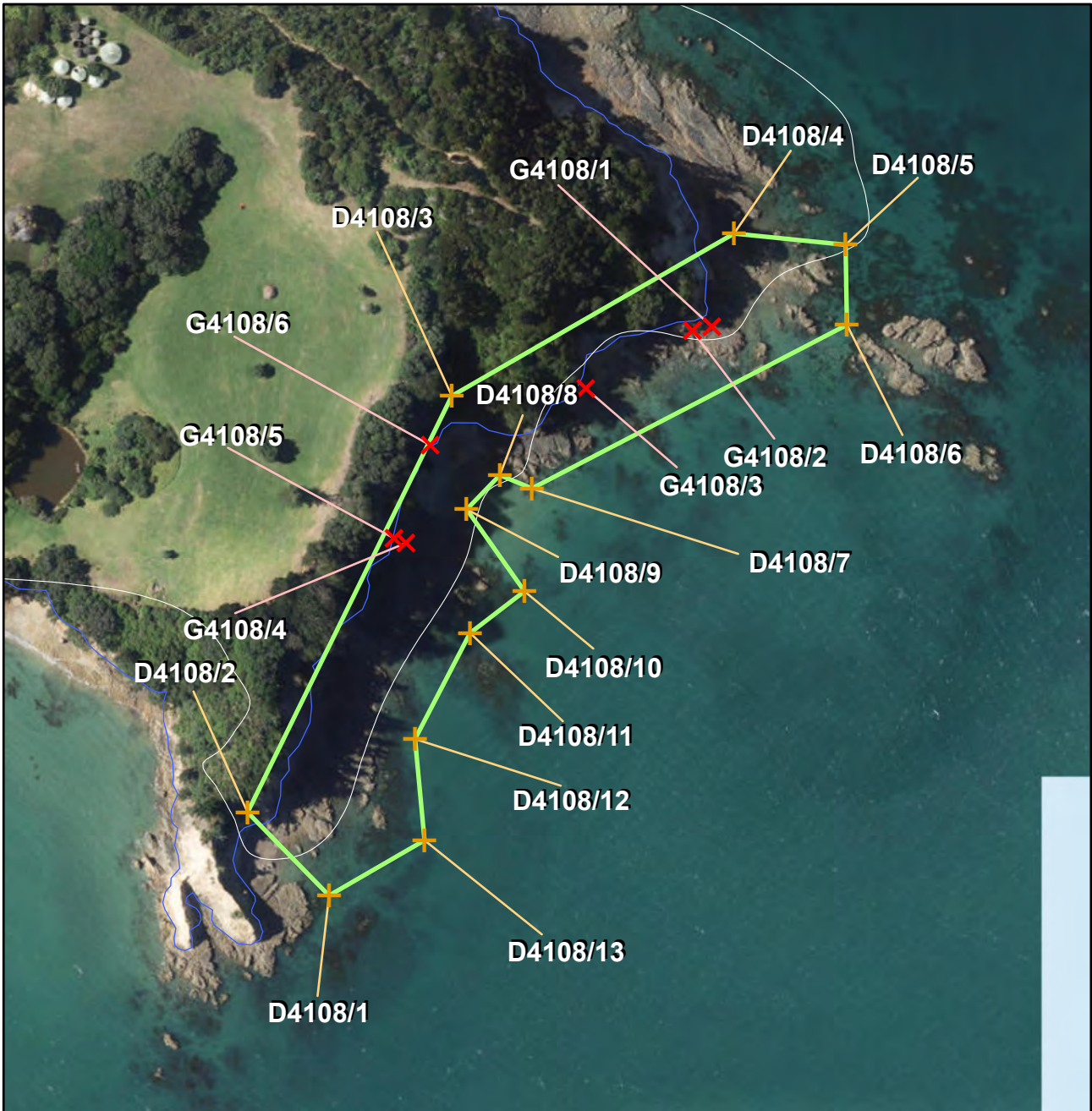


Geology	Name of item: Frenchmans Cap	Map reference: 24-1
UID : 4106 Island : Frenchmans Cap (Kahakaha) Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: A rare, exceptionally well-developed top hat island with wide intertidal rock platform.	Reasons: A,B,D,f,g,H,I,j,k Category: B
GPS points (NZTM)		Digitised points (NZTM)
<p>Refer to the disclaimer at the beginning of this appendix.</p>		1) D4106/1 E175 11 06.82013, S36 48 10.30483 2) D4106/2 E175 11 09.12011, S36 48 11.46941 3) D4106/3 E175 11 08.15347, S36 48 14.24680 4) D4106/4 E175 11 06.11145, S36 48 14.45166 5) D4106/5 E175 11 02.80982, S36 48 12.75192 6) D4106/6 E175 11 03.14856, S36 48 11.98967

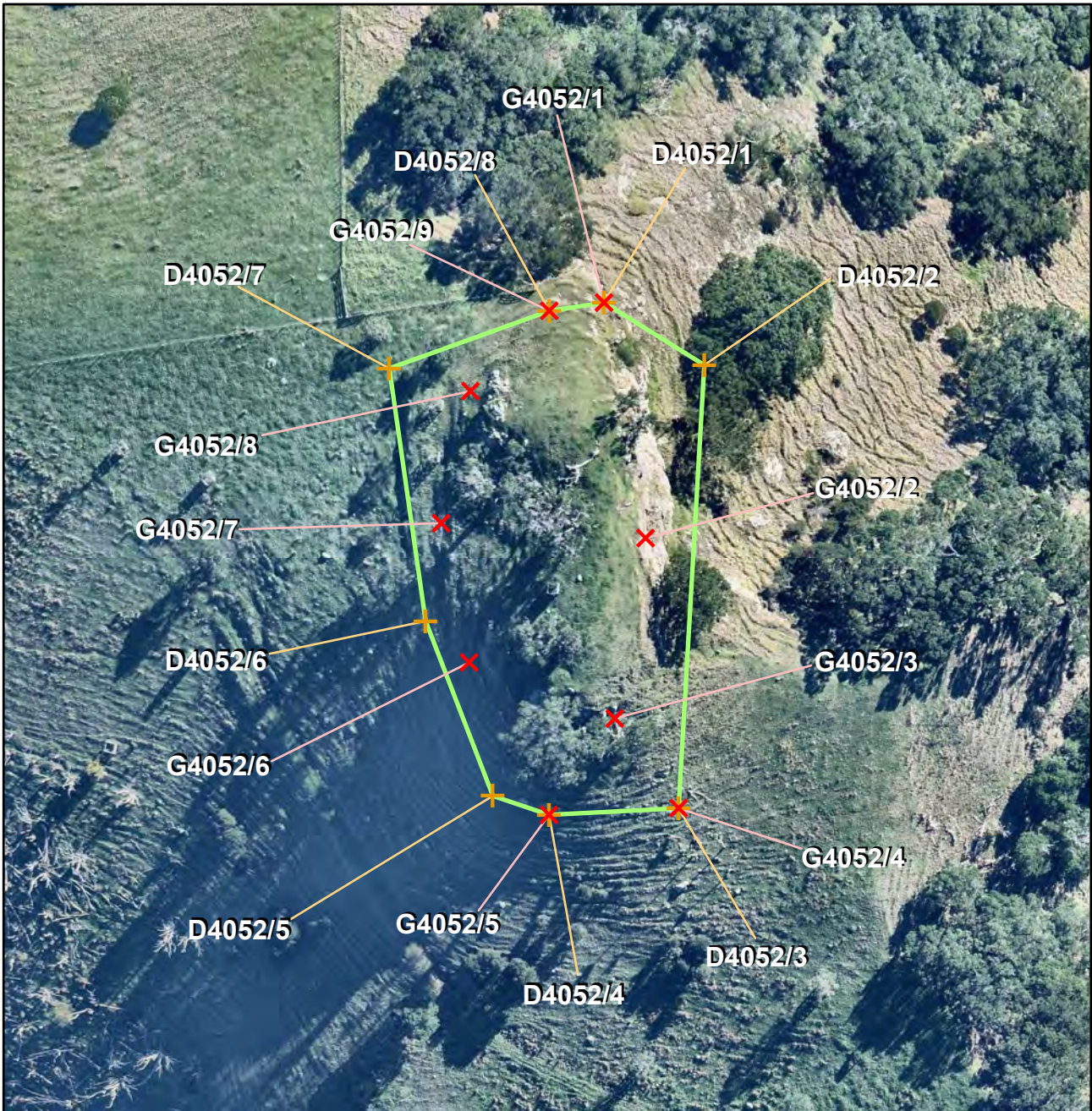


public

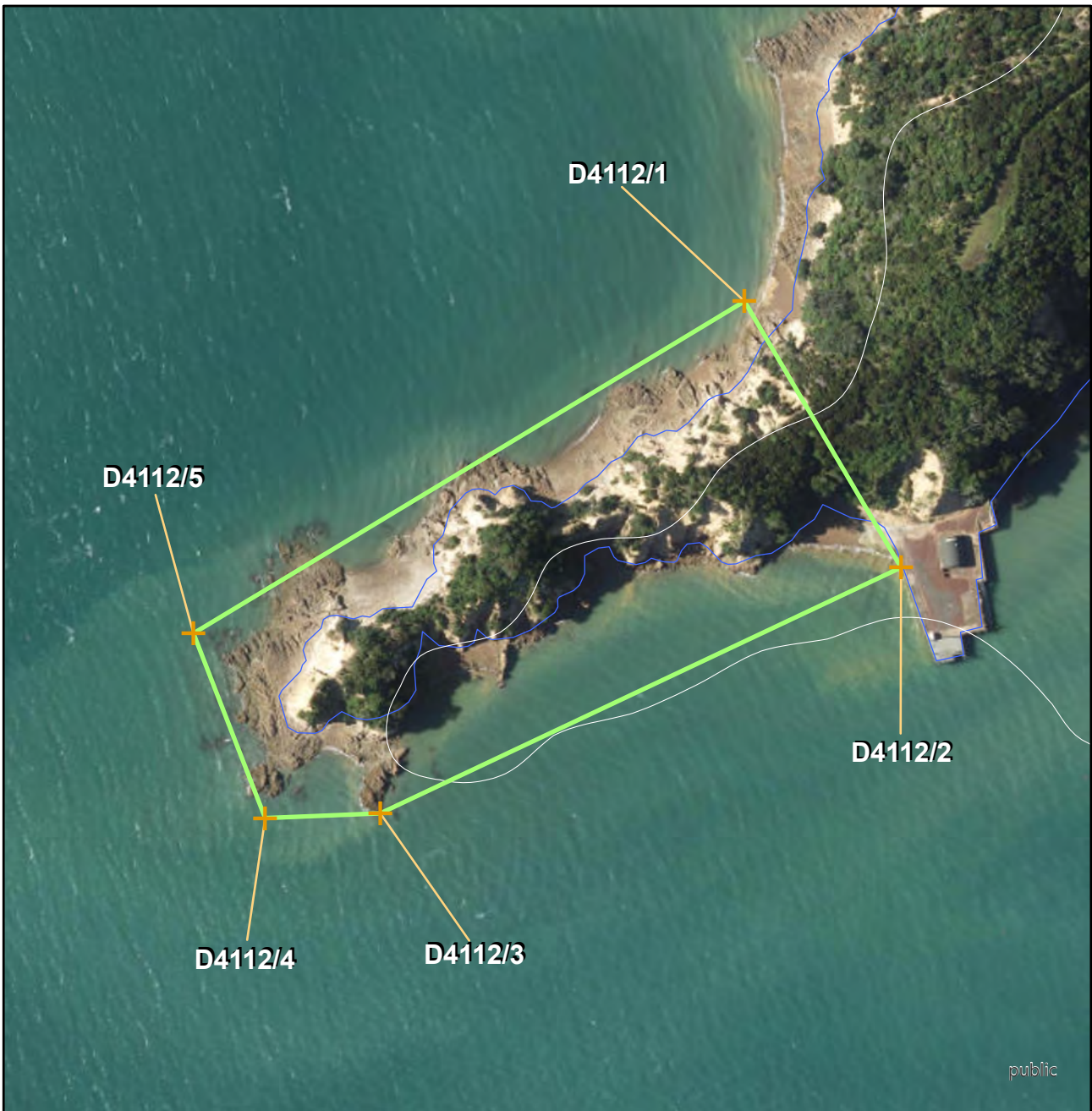
Geology	Name of item: South Pakatoa shore platform	Map reference: 24-2
UID : 4107 Island : Pakatoa Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: A well-developed high-tide wave-cut platform cut into thin-bedded Waipapa Terrane argillite and extending right around the southern point of Pakatoa Island.	Reasons: A,B,c,D,E,f,g,H,I,j Category: B 
GPS points (NZTM)		Digitised points (NZTM)
1) G4107/1 E175 11 45.13138, S36 47 57.07061 2) G4107/2 E175 11 46.87332, S36 47 59.69679 3) G4107/3 E175 11 47.89422, S36 47 59.92965 4) G4107/4 E175 11 47.30516, S36 48 01.03253 5) G4107/5 E175 11 46.19662, S36 48 01.04352 6) G4107/6 E175 11 45.13271, S36 47 59.84514 7) G4107/7 E175 11 45.57616, S36 47 59.61164		1) D4107/1 E175 11 45.13138, S36 47 57.07061 2) D4107/2 E175 11 45.62207, S36 47 57.49848 3) D4107/3 E175 11 45.63351, S36 47 59.06920 4) D4107/4 E175 11 46.46360, S36 47 59.31694 5) D4107/5 E175 11 46.89568, S36 47 59.14565 6) D4107/6 E175 11 47.23136, S36 47 58.98864 7) D4107/7 E175 11 48.42719, S36 47 59.92702 8) D4107/8 E175 11 47.40490, S36 48 02.16078 9) D4107/9 E175 11 45.66334, S36 48 01.95543 10) D4107/10 E175 11 44.21183, S36 48 00.01200 11) D4107/11 E175 11 45.07073, S36 47 57.81756 12) D4107/12 E175 11 44.56591, S36 47 57.45455
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



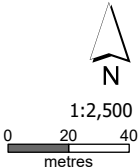
Geology		Name of item: East Pakatoa broken formation	Map reference: 24-3
UID : 4108 Island : Pakatoa Feature type : Exposures of geological material		Surrounds protected: N Description of item: Fresh and continuous 300m exposure of broken formation in Waipapa Terrane argillite and greywacke with intense deformation and a wide variety of structural features.	Reasons: A,B,C,D,E,f,g,H,I,j Category: B 1:3,000 0 25 50 metres
GPS points (NZTM)		Digitised points (NZTM)	
1) G4108/1 E175 11 55.41832, S36 47 51.13749 2) G4108/2 E175 11 55.05279, S36 47 51.20393 3) G4108/3 E175 11 53.06068, S36 47 52.12258 4) G4108/4 E175 11 49.72623, S36 47 54.53442 5) G4108/5 E175 11 49.49780, S36 47 54.46828 6) G4108/6 E175 11 50.14238, S36 47 53.03750		1) D4108/1 E175 11 48.42719, S36 47 59.92702 2) D4108/2 E175 11 46.84993, S36 47 58.68772 3) D4108/3 E175 11 50.53280, S36 47 52.28131 4) D4108/4 E175 11 55.79825, S36 47 49.70945 5) D4108/5 E175 11 57.91077, S36 47 49.84399 6) D4108/6 E175 11 57.97254, S36 47 51.06030 7) D4108/7 E175 11 52.08451, S36 47 53.65935 8) D4108/8 E175 11 51.47608, S36 47 53.46751 9) D4108/9 E175 11 50.85962, S36 47 54.00143 10) D4108/10 E175 11 51.99063, S36 47 55.22927 11) D4108/11 E175 11 50.97882, S36 47 55.88280 12) D4108/12 E175 11 49.98499, S36 47 57.51403 13) D4108/13 E175 11 50.20728, S36 47 59.05226	
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>			



Geology		Name of item: Fort Hill andesite breccia outcrop	Map reference: 24-4
UID : 4052 Island : Waiheke Feature type : Large landforms		Surrounds protected: N Description of item: Small cliff-top hill at the east end of Waiheke with distinctive steep-sided fort shape. It is composed of Miocene andesitic laharc breccia which are exposed in the cliff on its eastern side associated with eruptions of the Coromandel volcanic arc.	Reasons: A,B,c,D,e,G,I Category: B
GPS points (NZTM) 1) G4052/1 E175 11 54.79480, S36 45 44.03771 2) G4052/2 E175 11 55.09084, S36 45 45.22755 3) G4052/3 E175 11 54.92307, S36 45 46.14605 4) G4052/4 E175 11 55.33832, S36 45 46.59328 5) G4052/5 E175 11 54.52271, S36 45 46.64220 6) G4052/6 E175 11 53.99676, S36 45 45.87854 7) G4052/7 E175 11 53.80019, S36 45 45.17540 8) G4052/8 E175 11 53.96594, S36 45 44.50227 9) G4052/9 E175 11 54.45105, S36 45 44.08586		Digitised points (NZTM) 1) D4052/1 E175 11 54.79480, S36 45 44.03771 2) D4052/2 E175 11 55.43630, S36 45 44.34213 3) D4052/3 E175 11 55.33833, S36 45 46.59360 4) D4052/4 E175 11 54.52271, S36 45 46.64220 5) D4052/5 E175 11 54.16577, S36 45 46.55172 6) D4052/6 E175 11 53.71772, S36 45 45.67356 7) D4052/7 E175 11 53.45161, S36 45 44.39583 8) D4052/8 E175 11 54.45105, S36 45 44.08586	
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>			

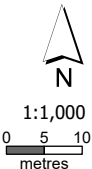


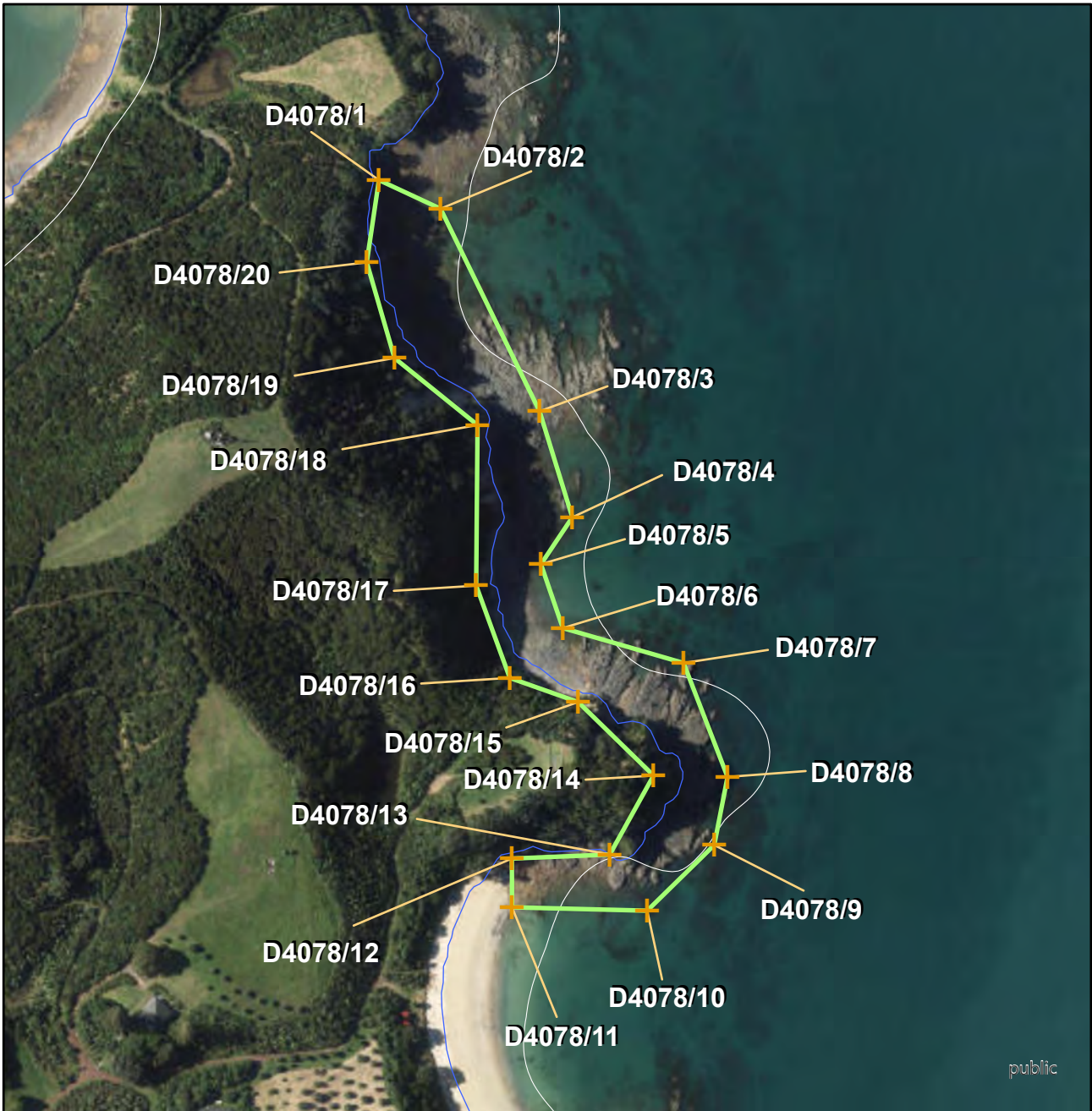
public

Geology	Name of item: West Rotoroa coastal headland	Map reference: 26-1
UID : 4112 Island : Rotoroa Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: A superb example of a long, narrow, knife-edge-crested coastal point eroded into weathered Waipapa Terrane rocks extending south-west from the wharf. Includes incipient coastal stack formation.	Reasons: A,B,c,D,e,f,G,H,I,j Category: B 
GPS points (NZTM)		Digitised points (NZTM)
		1) D4112/1 E175 11 34.07569, S36 49 00.40697 2) D4112/2 E175 11 36.64216, S36 49 03.73474 3) D4112/3 E175 11 28.52146, S36 49 07.00499 4) D4112/4 E175 11 26.70768, S36 49 07.09858 5) D4112/5 E175 11 25.51137, S36 49 04.77644
<p style="color: red;">Refer to the disclaimer at the beginning of this appendix.</p>		

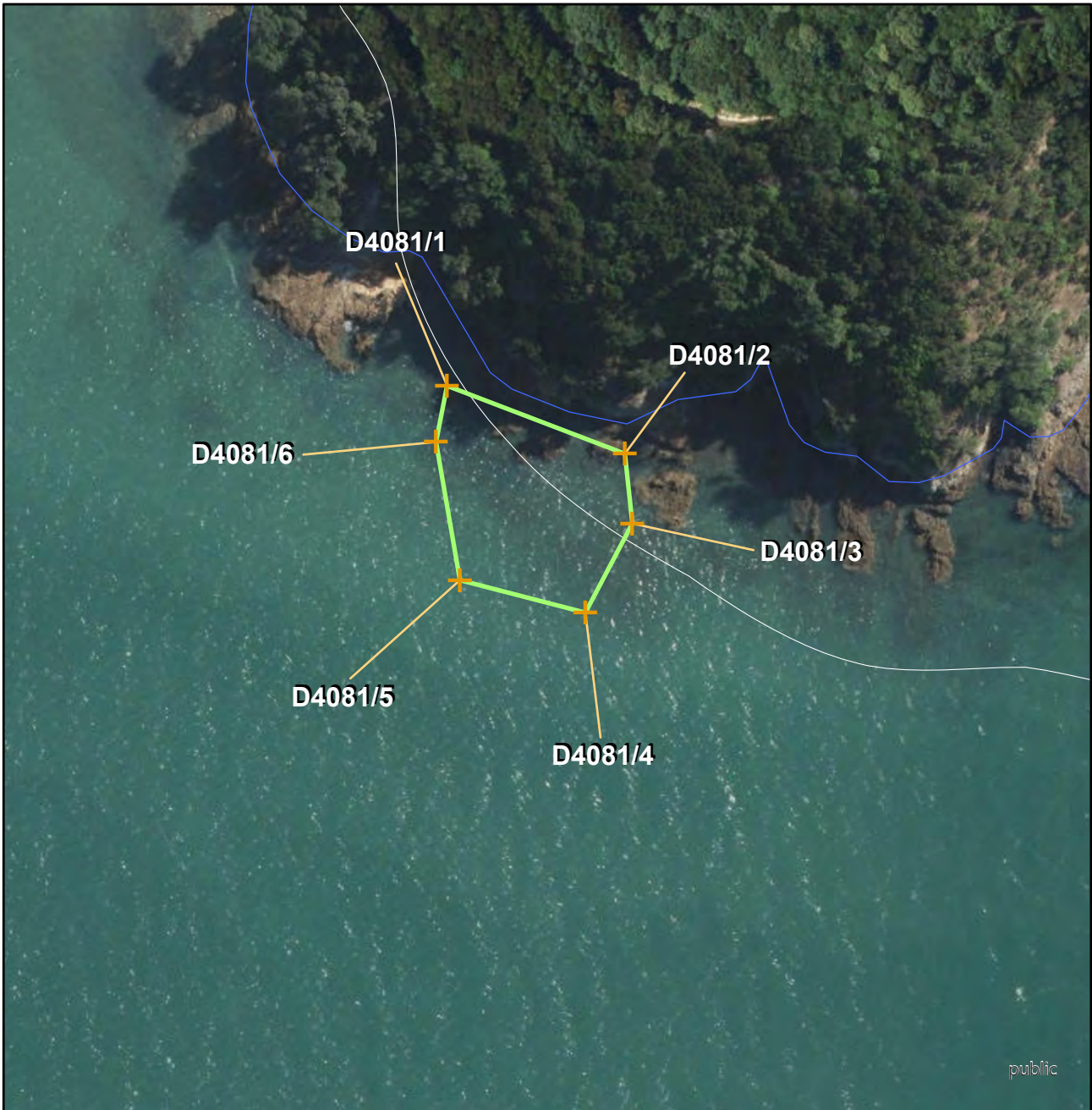


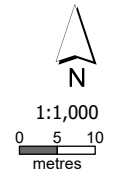
public

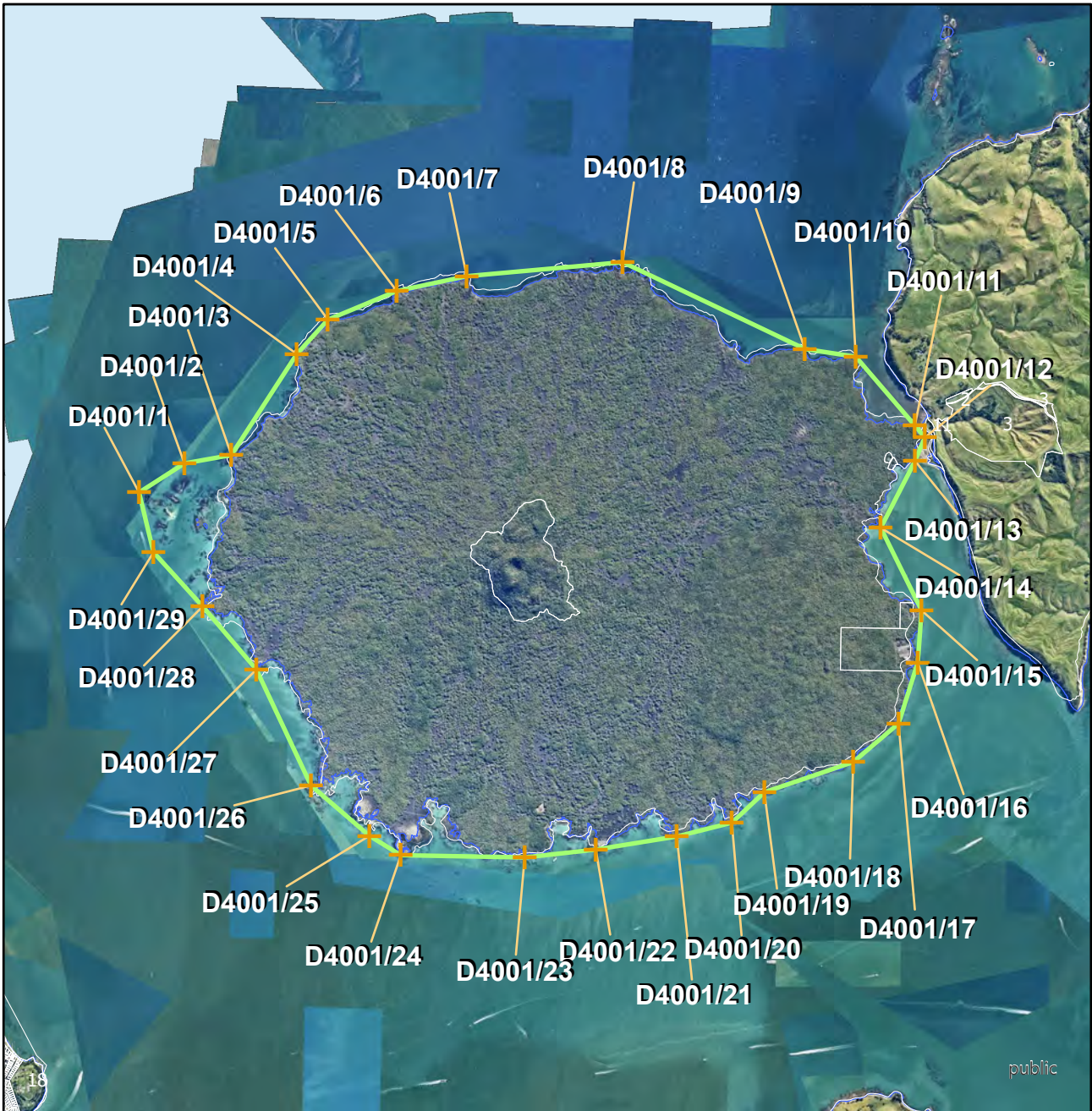
Geology	Name of item: South Kaheno Cove coastal stack	Map reference: 26-2
UID : 4077 Island : Rotoroa Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: Shore platform and conical stack at the southern end of Kaheno Cove. Excellent example of a coastal stack with an arch and guts eroded out of a mix of fresh and weathered Waipapa Terrane greywacke. Well-exposed faults and folds of varying kinds.	Reasons: a,B,c,D,E,f,g,H,I,j Category: B 
GPS points (NZTM)		Digitised points (NZTM)
<p>Refer to the disclaimer at the beginning of this appendix.</p>		1) D4077/1 E175 12 05.86464, S36 48 55.29715 2) D4077/2 E175 12 06.68961, S36 48 54.84499 3) D4077/3 E175 12 08.71864, S36 48 55.19730 4) D4077/4 E175 12 09.15583, S36 48 56.05230 5) D4077/5 E175 12 08.11450, S36 48 57.39410 6) D4077/6 E175 12 06.58036, S36 48 57.50947 7) D4077/7 E175 12 06.82763, S36 48 56.47189 8) D4077/8 E175 12 05.96664, S36 48 55.75849



Geology	Name of item: North Kaheno Cove folded greywacke	Map reference: 26-3
UID : 4078 Island : Rotoroa Feature type : Exposures of geological material	Surrounds protected: N Description of item: Excellent exposures of multiple phased folding in fresh, thin-bedded argillite and greywacke (Waipapa Terrane) in 600m of shore platform and base of cliffs extending north from the north end of Kaheno Cove.	Reasons: A,B,C,D,e,f,g,H,I,j Category: B
GPS points (NZTM)		Digitised points (NZTM)
		1) D4078/1 E175 12 01.66602, S36 48 35.83937 2) D4078/2 E175 12 03.23862, S36 48 36.39042 3) D4078/3 E175 12 05.85449, S36 48 40.45528 4) D4078/4 E175 12 06.74003, S36 48 42.58856 5) D4078/5 E175 12 05.97892, S36 48 43.55897 6) D4078/6 E175 12 06.56508, S36 48 44.84224 7) D4078/7 E175 12 09.62932, S36 48 45.49391 8) D4078/8 E175 12 10.80681, S36 48 47.78581 9) D4078/9 E175 12 10.50880, S36 48 49.17489 10) D4078/10 E175 12 08.85869, S36 48 50.53646 11) D4078/11 E175 12 05.44562, S36 48 50.52852 12) D4078/12 E175 12 05.41477, S36 48 49.54133 13) D4078/13 E175 12 07.88163, S36 48 49.41458 14) D4078/14 E175 12 08.93672, S36 48 47.79083 15) D4078/15 E175 12 06.99400, S36 48 46.33735 16) D4078/16 E175 12 05.25956, S36 48 45.87849 17) D4078/17 E175 12 04.35516, S36 48 44.01980 18) D4078/18 E175 12 04.29411, S36 48 40.76101 19) D4078/19 E175 12 02.16440, S36 48 39.44303 20) D4078/20 E175 12 01.40802, S36 48 37.51547
<p>Refer to the disclaimer at the beginning of this appendix.</p>		



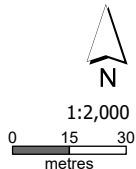
Geology	Name of item: South Rotoroa boxwork weathering	Map reference: 26-4
UID : 4081 Island : Rotoroa Feature type : Exposures of geological material	Surrounds protected: N Description of item: One of the best examples of boxwork weathering in Auckland City. Boxwork is developed in Waipapa Terrane rocks and has intact fresh kernels of grey rock.	Reasons: A,B,c,D,f,g,H,I,j Category: B 
GPS points (NZTM)		Digitised points (NZTM)
		1) D4081/1 E175 11 54.87082, S36 49 29.77200 2) D4081/2 E175 11 56.00147, S36 49 30.09576 3) D4081/3 E175 11 56.05929, S36 49 30.44799 4) D4081/4 E175 11 55.77566, S36 49 30.90510 5) D4081/5 E175 11 54.97982, S36 49 30.75533 6) D4081/6 E175 11 54.80912, S36 49 30.05849
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



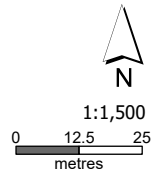
Geology		Name of item: Rangitoto volcano		Map reference: 30-1	
UID : 4001 Island : Rangitoto Feature type : Large landforms		Surrounds protected: N Description of item: Entire island - one of the best examples of a young intra-plate basaltic shield volcano in unmodified natural state anywhere in the world.		Reasons: A,B,C,D,E,F,G,H,I,J,K,L Category: A 1:55,000 0 500 1,000 metres	
GPS points (NZTM)			Digitised points (NZTM)		
			1) D4001/1 E174 49 17.91642, S36 46 52.85810 2) D4001/2 E174 49 33.43425, S36 46 44.48665 3) D4001/3 E174 49 49.63903, S36 46 41.93571 4) D4001/4 E174 50 11.67438, S36 46 13.38069 5) D4001/5 E174 50 22.19026, S36 46 03.62854 6) D4001/6 E174 50 45.93039, S36 45 55.27335 7) D4001/7 E174 51 10.02017, S36 45 50.73963 8) D4001/8 E174 52 03.98823, S36 45 46.02847 9) D4001/9 E174 53 07.78321, S36 46 09.21775 10) D4001/10 E174 53 25.45271, S36 46 11.11100 11) D4001/11 E174 53 46.43088, S36 46 29.93553 12) D4001/12 E174 53 49.97586, S36 46 33.26329 13) D4001/13 E174 53 46.76681, S36 46 39.81598 14) D4001/14 E174 53 35.29853, S36 46 58.72167 15) D4001/15 E174 53 50.00587, S36 47 21.53682 16) D4001/16 E174 53 49.09105, S36 47 36.08914 17) D4001/17 E174 53 42.85366, S36 47 53.19863 18) D4001/18 E174 53 27.36385, S36 48 04.18535 19) D4001/19 E174 52 56.75192, S36 48 13.12459 20) D4001/20 E174 52 45.65098, S36 48 21.81966 21) D4001/21 E174 52 26.67222, S36 48 25.92466 22) D4001/22 E174 51 58.69687, S36 48 30.05551 23) D4001/23 E174 51 34.09834, S36 48 32.64714 24) D4001/24 E174 50 51.05710, S36 48 32.65002 25) D4001/25 E174 50 40.08844, S36 48 27.44267 26) D4001/26 E174 50 19.46057, S36 48 13.67528 27) D4001/27 E174 49 59.73246, S36 47 41.62574 28) D4001/28 E174 49 40.70584, S36 47 24.29436 29) D4001/29 E174 49 23.32628, S36 47 09.44921		

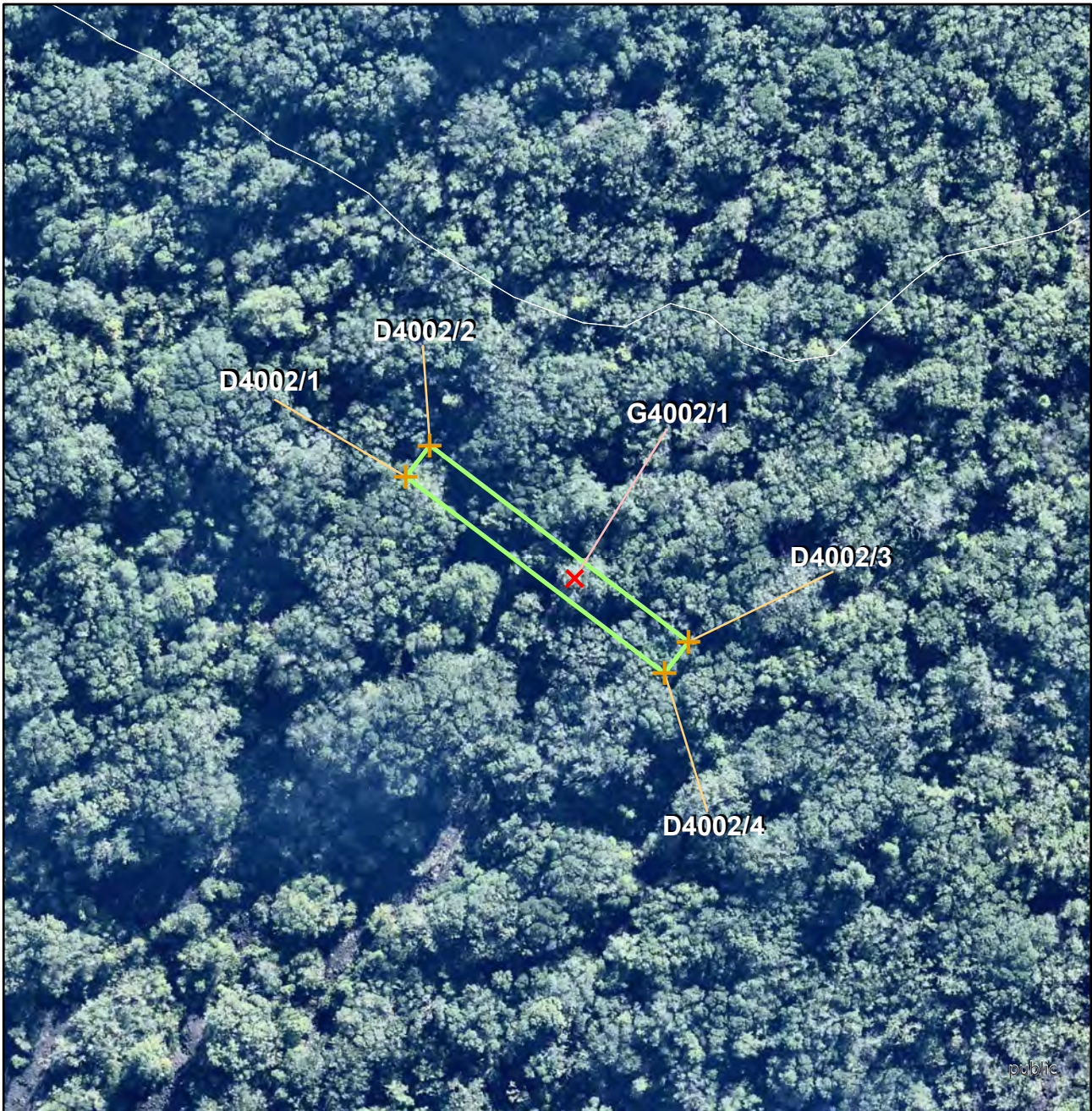
Refer to the disclaimer at the beginning of this appendix.



Geology	Name of item: West Davis Bay rock sequence	Map reference: 30-2
UID : 4102 Island : Motukorea (Browns) Feature type : Fragile exposures of geological material	Surrounds protected: N Description of item: A 200m long section of intertidal rocky shore platform exposing a sequence of greywacke, sandstone and basalt bomb-bearing tuff overlain by a basalt lavafLOW. On top of this around high tide level is an unusual example of Holocenecobbly beach rock.	Reasons: a,B,C,D,E,g,H,I,j Category: B  1:2,000 0 15 30 metres
GPS points (NZTM)		Digitised points (NZTM)
1) G4102/1 E174 53 33.74232, S36 49 37.47559		1) D4102/1 E174 53 38.11082, S36 49 34.43272 2) D4102/2 E174 53 38.93881, S36 49 35.53601 3) D4102/3 E174 53 38.93772, S36 49 36.87549 4) D4102/4 E174 53 35.70007, S36 49 36.66373 5) D4102/5 E174 53 35.32297, S36 49 36.89749 6) D4102/6 E174 53 34.73534, S36 49 36.81047 7) D4102/7 E174 53 33.88911, S36 49 37.60410 8) D4102/8 E174 53 31.77028, S36 49 37.96970 9) D4102/9 E174 53 31.00950, S36 49 36.26428
<p>Refer to the disclaimer at the beginning of this appendix.</p>		



Geology	Name of item: East Crater Bay cliffs tuff sequence	Map reference: 30-3
UID : 4104 Island : Motukorea (Browns) Feature type : Fragile exposures of geological material	Surrounds protected: N Description of item: High cliff section at east end of Crater Bay contains best exposed section through the tuff ring of bedded ash with various examples of volcanic bomb impact depressions, wet and dry eruption deposits, faults and pleistocene shell fossils.	Reasons: A,B,C,D,E,H,I,j Category: A  1:1,500 0 12.5 25 metres
GPS points (NZTM)		Digitised points (NZTM)
1) G4104/1 E174 53 54.45989, S36 49 42.39985		1) D4104/1 E174 53 53.57859, S36 49 41.20960 2) D4104/2 E174 53 56.68429, S36 49 38.71185 3) D4104/3 E174 53 59.06697, S36 49 42.48545 4) D4104/4 E174 53 57.23085, S36 49 43.21253 5) D4104/5 E174 53 56.03034, S36 49 42.11422 6) D4104/6 E174 53 54.43160, S36 49 42.35427
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



Geology	Name of item: Ladder lava cave	Map reference: 30-4
UID : 4002 Island : Rangitoto Feature type : Caves	Surrounds protected: N Description of item: Unmodified, publicly accessible 64m long lava cave with the best stalactites and natural pahoehoe floor of any Rangitoto lava cave.	Reasons: A,b,c,D,E,F,H,I,j Category: B
GPS points (NZTM) 1) G4002/1 E174 51 44.81533, S36 47 27.45892		Digitised points (NZTM) 1) D4002/1 E174 51 43.73930, S36 47 26.95936 2) D4002/2 E174 51 43.88624, S36 47 26.79717 3) D4002/3 E174 51 45.54176, S36 47 27.76887 4) D4002/4 E174 51 45.39480, S36 47 27.93073
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



Geology		Name of item: Motukorea volcano	Map reference: 30-5
UID : 4111 Island : Motukorea (Browns) Feature type : Large landforms	Surrounds protected: N Description of item: Entire island - one of the best preserved and most diverse volcanoes in the Auckland Volcanic Field.	Reasons: A,B,C,D,E,F,G,H,I,j,K,I Category: A	1:10,000
GPS points (NZTM)		Digitised points (NZTM)	
		1) D4111/1 E174 53 31.38251, S36 50 12.51764 2) D4111/2 E174 53 29.30116, S36 50 11.83611 3) D4111/3 E174 53 29.27176, S36 50 10.75448 4) D4111/4 E174 53 28.68998, S36 50 09.83735 5) D4111/5 E174 53 29.44333, S36 50 07.84281 6) D4111/6 E174 53 29.24698, S36 50 02.10292 7) D4111/7 E174 53 25.82782, S36 50 01.05969 8) D4111/8 E174 53 16.06759, S36 49 51.96917 9) D4111/9 E174 53 21.17617, S36 49 49.55729 10) D4111/10 E174 53 16.59554, S36 49 46.62576 11) D4111/11 E174 53 15.54631, S36 49 41.61954 12) D4111/12 E174 53 25.59291, S36 49 36.22536 13) D4111/13 E174 53 37.48343, S36 49 33.22532 14) D4111/14 E174 53 39.25582, S36 49 35.31952 15) D4111/15 E174 53 40.76884, S36 49 36.03923 16) D4111/16 E174 53 42.52115, S36 49 35.91107 17) D4111/17 E174 53 44.69693, S36 49 35.02913 18) D4111/18 E174 53 47.70039, S36 49 35.87542 19) D4111/19 E174 53 48.22745, S36 49 37.20593 20) D4111/20 E174 53 48.21221, S36 49 38.76534 21) D4111/21 E174 53 50.36033, S36 49 39.96413 22) D4111/22 E174 53 53.55854, S36 49 40.87411 23) D4111/23 E174 53 56.63200, S36 49 38.27472 24) D4111/24 E174 53 59.26897, S36 49 38.76363 25) D4111/25 E174 54 02.16107, S36 49 44.16395 26) D4111/26 E174 54 01.87284, S36 49 45.43452 27) D4111/27 E174 54 03.51939, S36 49 46.60607 28) D4111/28 E174 54 02.90904, S36 49 48.74901 29) D4111/29 E174 54 00.15847, S36 49 50.15061 30) D4111/30 E174 54 01.30360, S36 49 51.59903 31) D4111/31 E174 54 01.15478, S36 49 53.18643 32) D4111/32 E174 53 58.46164, S36 49 54.93452 33) D4111/33 E174 53 51.75079, S36 49 59.11138 34) D4111/34 E174 53 49.09244, S36 49 58.73311 35) D4111/35 E174 53 49.12921, S36 50 04.54233 36) D4111/36 E174 53 47.23614, S36 50 06.00045 37) D4111/37 E174 53 43.70500, S36 50 06.82381 38) D4111/38 E174 53 45.31286, S36 50 09.41864 39) D4111/39 E174 53 43.42031, S36 50 10.37898 40) D4111/40 E174 53 41.10476, S36 50 12.30592 41) D4111/41 E174 53 39.95535, S36 50 11.18914 42) D4111/42 E174 53 39.37629, S36 50 09.22420 43) D4111/43 E174 53 36.81532, S36 50 08.02158 44) D4111/44 E174 53 33.90471, S36 50 09.35442 45) D4111/45 E174 53 32.36897, S36 50 11.47301	

Refer to the disclaimer at the beginning of this appendix.

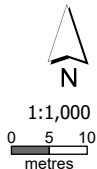


Geology		Name of item: Lava levees		Map reference: 30-6	
UID : 4005 Island : Rangitoto Feature type : Smaller more fragile landforms		Surrounds protected: N Description of item: Easily accessible, excellent representative example of lava flow levees.		Reasons: A,B,D,f,g,H,I,J Category: A	
GPS points (NZTM) 1) G4005/1 E174 51 38.80455, S36 48 12.22377 2) G4005/2 E174 51 39.68124, S36 48 12.23391 3) G4005/3 E174 51 38.89994, S36 48 13.33055			Digitised points (NZTM) 1) D4005/1 E174 51 38.80455, S36 48 12.22377 2) D4005/2 E174 51 39.68124, S36 48 12.23391 3) D4005/3 E174 51 39.89029, S36 48 13.33580 4) D4005/4 E174 51 38.89994, S36 48 13.33055		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					



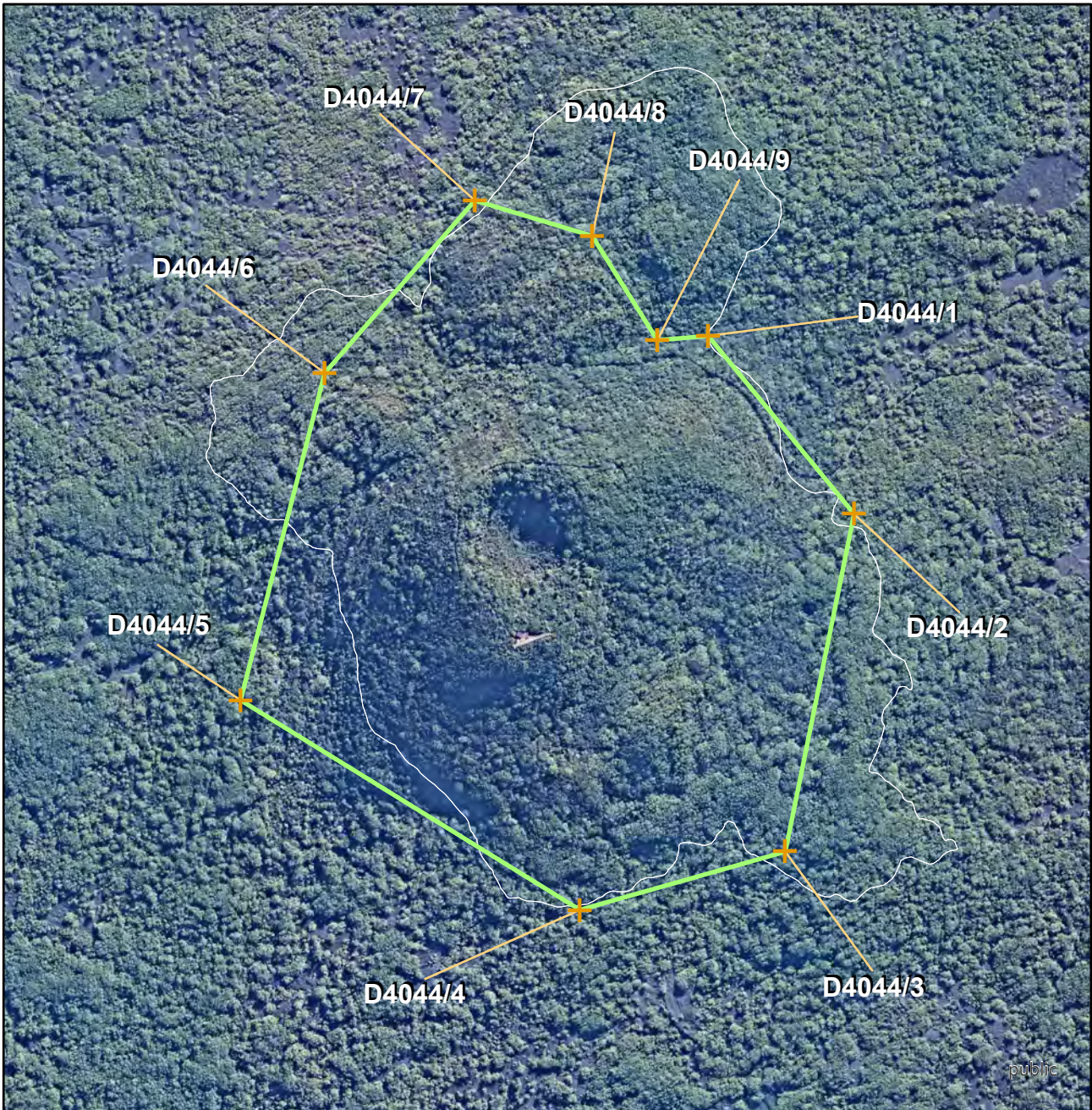
Geology	Name of item: Northern lava cave	Map reference: 30-7
UID : 4006 Island : Rangitoto Feature type : Caves	Surrounds protected: N Description of item: Natural, unmodified publicly accessible lava cave.	Reasons: A,b,c,D,e,F,H,I,j Category: B
GPS points (NZTM)		Digitised points (NZTM)
1) G4006/1 E174 51 46.48341, S36 47 24.80302		1) D4006/1 E174 51 46.26382, S36 47 24.76822 2) D4006/2 E174 51 46.48573, S36 47 24.63361 3) D4006/3 E174 51 47.70830, S36 47 25.93468 4) D4006/4 E174 51 47.48639, S36 47 26.06962
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		


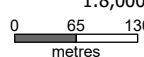


Geology	Name of item: Trench lava cave	Map reference: 30-8
UID : 4007 Island : Rangitoto Feature type : Caves	Surrounds protected: N Description of item: Natural, unchanged, accessible lava cave of unique trench-like shape with numerous roof collapses, branch tubes and stalactites.	Reasons: A,B,C,D,E,F,g,H,I,j,k Category: A 
GPS points (NZTM)		Digitised points (NZTM)
1) G4007/1 E174 51 45.81260, S36 47 25.90652 2) G4007/2 E174 51 45.64042, S36 47 26.61752 3) G4007/3 E174 51 45.63134, S36 47 26.67025 4) G4007/4 E174 51 46.06591, S36 47 27.39572 5) G4007/5 E174 51 47.93149, S36 47 29.20547		1) D4007/1 E174 51 46.06503, S36 47 25.55560 2) D4007/2 E174 51 46.07045, S36 47 26.40533 3) D4007/3 E174 51 46.39287, S36 47 27.13112 4) D4007/4 E174 51 48.50768, S36 47 29.16304 5) D4007/5 E174 51 47.80553, S36 47 29.77420 6) D4007/6 E174 51 45.77030, S36 47 27.49007 7) D4007/7 E174 51 45.31878, S36 47 26.79442 8) D4007/8 E174 51 44.21910, S36 47 25.80368
Refer to the disclaimer at the beginning of this appendix.		


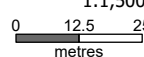


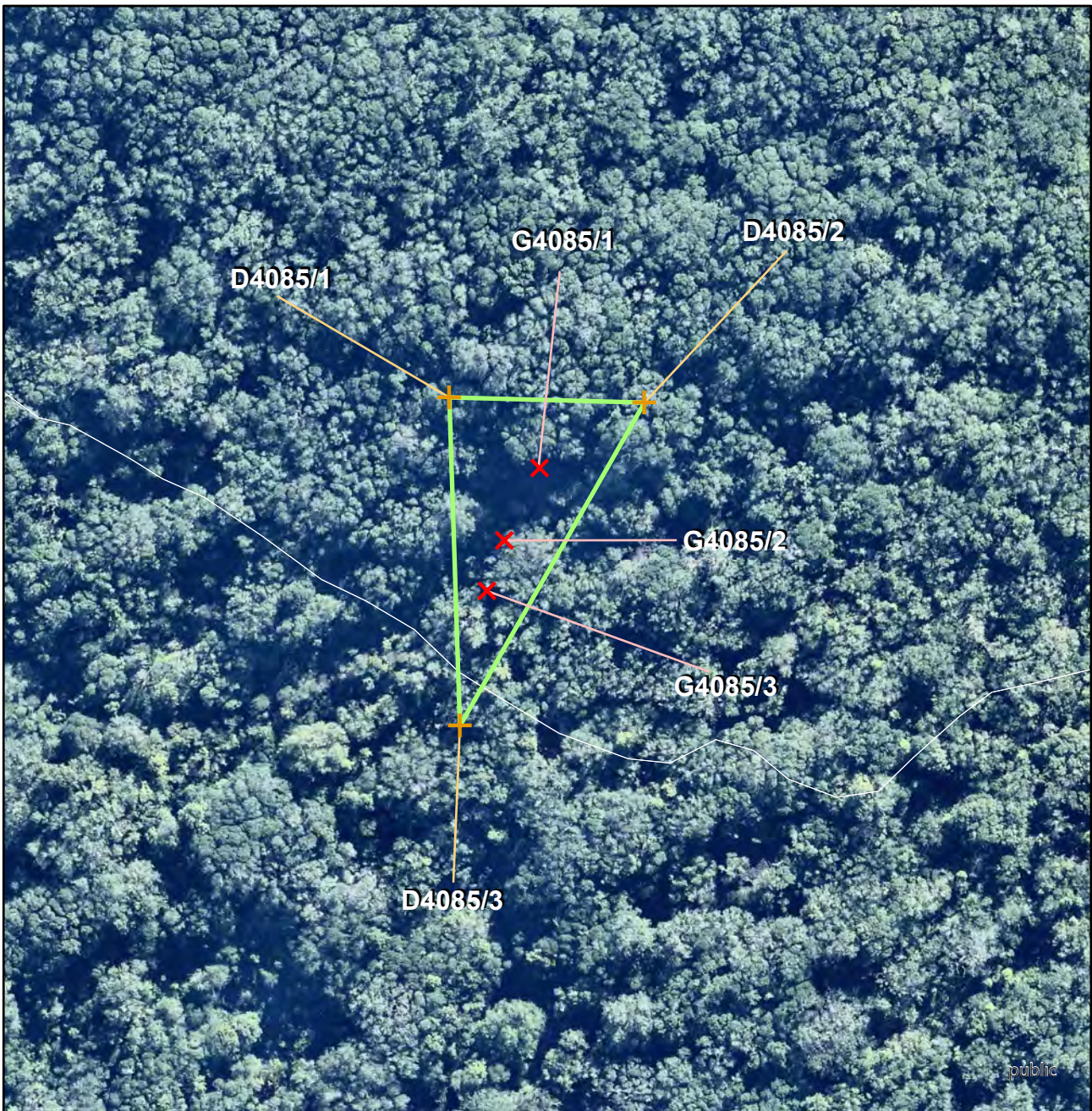
Geology	Name of item: Wallaby lava cave	Map reference: 30-9
UID : 4008 Island : Rangitoto Feature type : Caves	Surrounds protected: N Description of item: An unmodified, publicly accessible lava cave with narrow entrance and two levels.	Reasons: A,b,c,D,e,F,H,I,j Category: B
GPS points (NZTM)		Digitised points (NZTM)
1) G4008/1 E174 51 42.99559, S36 47 28.36945		1) D4008/1 E174 51 42.91223, S36 47 28.37511 2) D4008/2 E174 51 42.89794, S36 47 27.84126 3) D4008/3 E174 51 43.55314, S36 47 27.70629 4) D4008/4 E174 51 44.17909, S36 47 28.48264 5) D4008/5 E174 51 44.52226, S36 47 29.42580 6) D4008/6 E174 51 42.28600, S36 47 28.86878
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		



Geology	Name of item: Scoria cones	Map reference: 30-10
UID : 4044 Island : Rangitoto Feature type : Large landforms	Surrounds protected: N Description of item: Some of best preserved and youngest scoria cones in the Auckland Volcanic Field.	Reasons: A,B,C,D,e,F,G,H,I,J,K,L Category: A  1:8,000 
GPS points (NZTM)		Digitised points (NZTM)
<p>Refer to the disclaimer at the beginning of this appendix.</p>		1) D4044/1 E174 51 38.41959, S36 47 03.51625 2) D4044/2 E174 51 45.95824, S36 47 10.61935 3) D4044/3 E174 51 42.81661, S36 47 24.36684 4) D4044/4 E174 51 32.51602, S36 47 26.89757 5) D4044/5 E174 51 15.20014, S36 47 18.65666 6) D4044/6 E174 51 19.12493, S36 47 05.31901 7) D4044/7 E174 51 26.52535, S36 46 58.20449 8) D4044/8 E174 51 32.47514, S36 46 59.55174 9) D4044/9 E174 51 35.86886, S36 47 03.72717

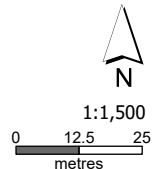


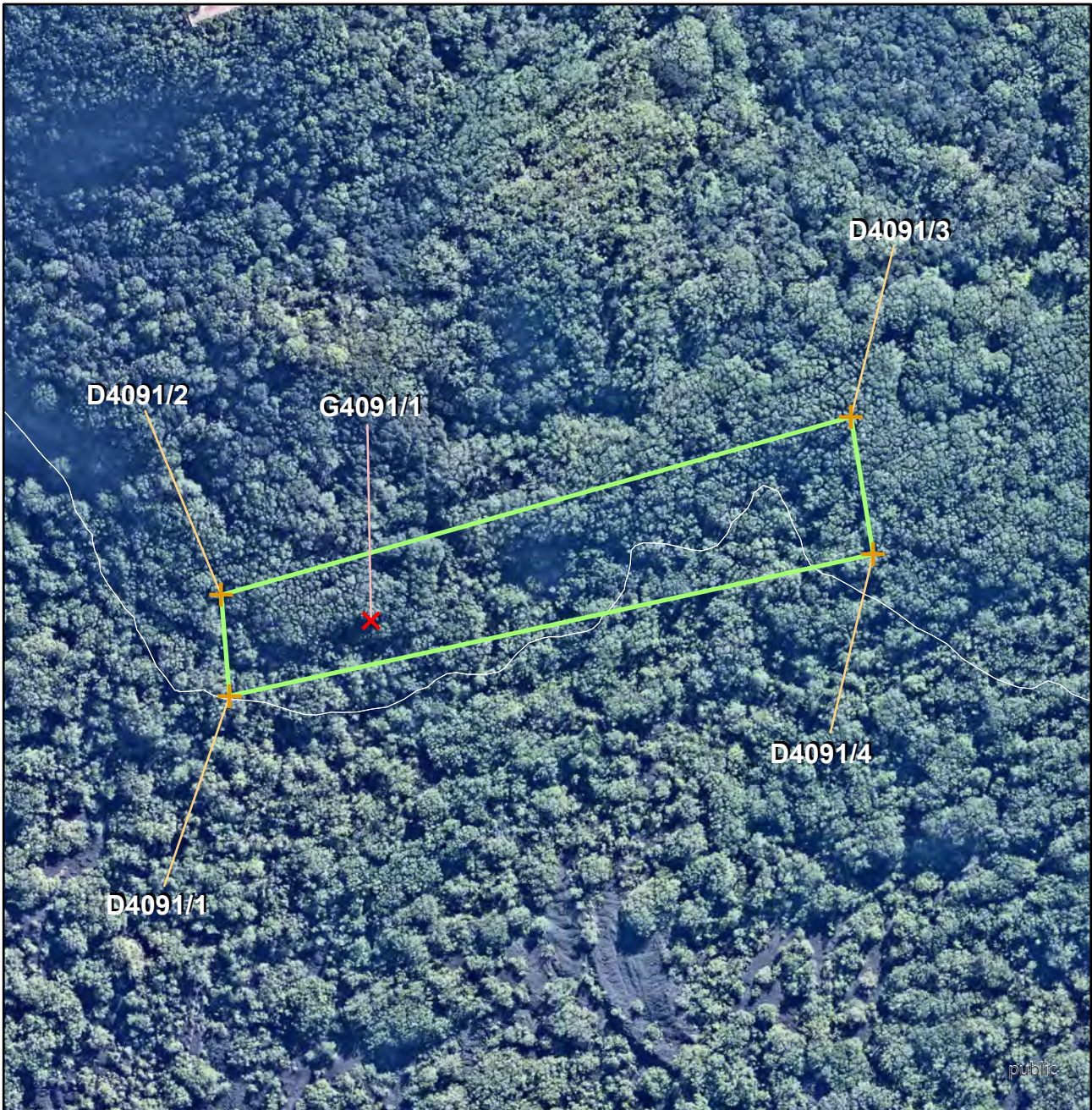
Geology	Name of item: aa lava field	Map reference: 30-11
UID : 4056 Island : Rangitoto Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: Easily accessible, excellent representative example of aa lava flows.	Reasons: A,B,D,f,g,H,I,J Category: A <div style="text-align: right;">  1:1,500  metres </div>
GPS points (NZTM)		Digitised points (NZTM)
1) G4056/1 E174 51 32.88458, S36 48 03.69209		1) D4056/1 E174 51 31.96425, S36 48 01.12774 2) D4056/2 E174 51 31.96425, S36 48 01.12774 3) D4056/3 E174 51 33.88902, S36 48 05.64399 4) D4056/4 E174 51 32.31121, S36 48 05.59307
Refer to the disclaimer at the beginning of this appendix.		


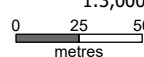


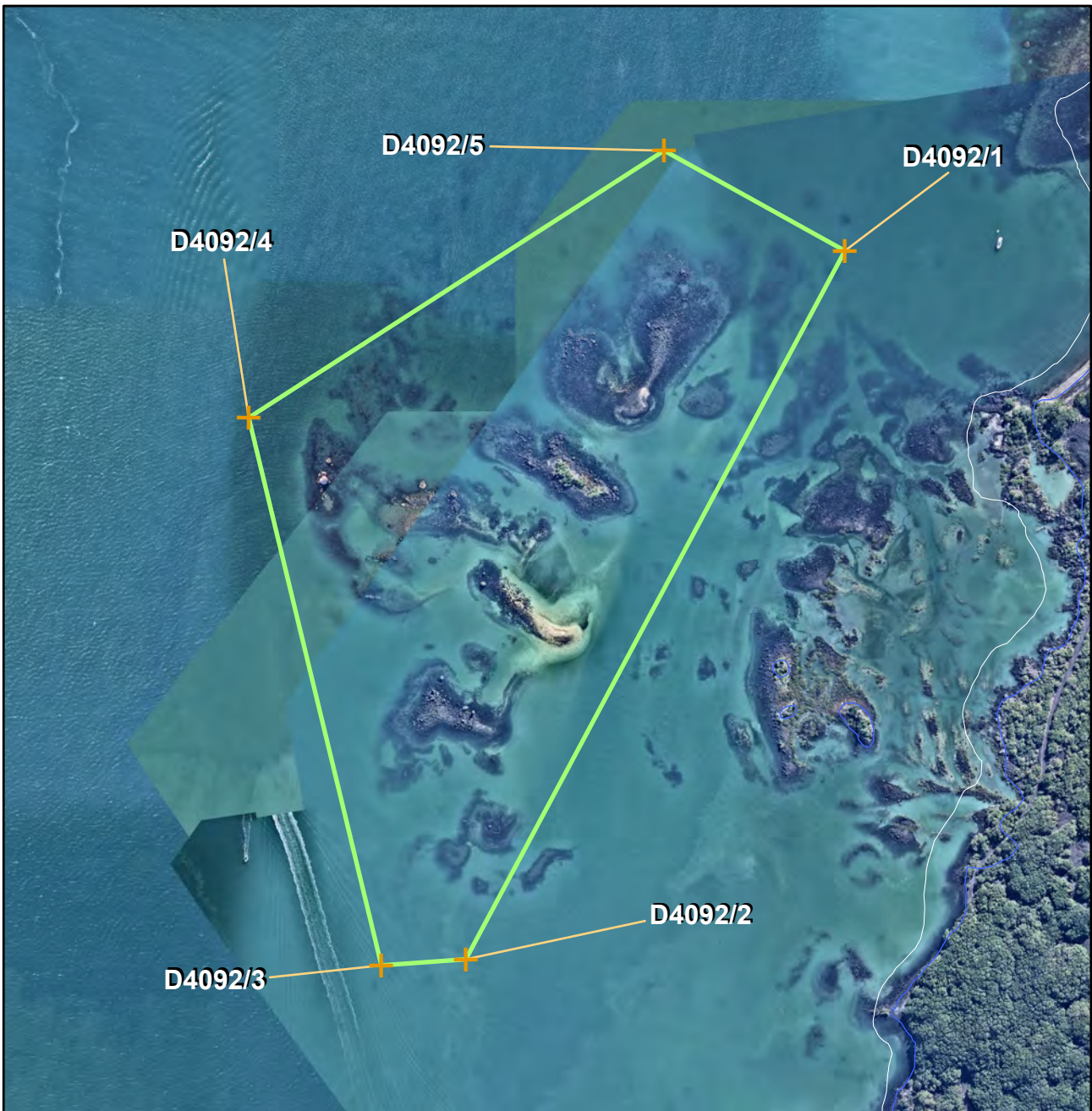
Geology		Name of item: Hornito		Map reference: 30-12	
UID : 4085 Island : Rangitoto Feature type : Smaller more fragile landforms		Surrounds protected: N Description of item: Excellent, easily accessible, rare example of a hornito. It is a 2m high pile of welded spatter sitting atop a lava flow.		Reasons: A,B,D,f,H,I,j Category: A	
GPS points (NZTM) 1) G4085/1 E174 51 44.24144, S36 47 24.69455 2) G4085/2 E174 51 44.02867, S36 47 25.06522 3) G4085/3 E174 51 43.92463, S36 47 25.32304			Digitised points (NZTM) 1) D4085/1 E174 51 43.66404, S36 47 24.34470 2) D4085/2 E174 51 44.89471, S36 47 24.35226 3) D4085/3 E174 51 43.77156, S36 47 26.00969		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					

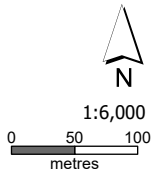


Geology	Name of item: Fossil locality, lava bombs, pahoehoe lava and baked marine sediments	Map reference: 30-13
UID : 4086 Island : Rangitoto Feature type : Fragile exposures of geological material	Surrounds protected: N Description of item: Baked marine sediment containing fossilised shells, volcanic lava bombs and pahoehoe lava flows.	Reasons: A,B,C,D,E,f,H,I,j Category: B 
GPS points (NZTM)		Digitised points (NZTM)
1) G4086/1 E174 50 42.05156, S36 48 23.29329 2) G4086/2 E174 50 41.45360, S36 48 24.22248		1) D4086/1 E174 50 39.08432, S36 48 23.43930 2) D4086/2 E174 50 42.13502, S36 48 22.66756 3) D4086/3 E174 50 44.37368, S36 48 24.15417 4) D4086/4 E174 50 43.65629, S36 48 24.49097 5) D4086/5 E174 50 44.63083, S36 48 25.52554 6) D4086/6 E174 50 44.71866, S36 48 26.00621 7) D4086/7 E174 50 40.08844, S36 48 27.44267 8) D4086/8 E174 50 37.15757, S36 48 25.23525 9) D4086/9 E174 50 39.21501, S36 48 23.92377
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		

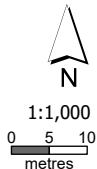


Geology	Name of item: Moat	Map reference: 30-14
UID : 4091 Island : Rangitoto Feature type : Large landforms	Surrounds protected: N Description of item: Good example of a collapse feature resulting from magma withdrawal.	Reasons: A,B,c,D,f,g,H,I,j Category: A <div style="text-align: right;">  1:3,000  0 25 50 metres </div>
GPS points (NZTM)		Digitised points (NZTM)
1) G4091/1 E174 51 32.56113, S36 47 25.34058		1) D4091/1 E174 51 29.91362, S36 47 26.52658 2) D4091/2 E174 51 29.71893, S36 47 24.99353 3) D4091/3 E174 51 41.56615, S36 47 22.09831 4) D4091/4 E174 51 42.03782, S36 47 24.17979
Refer to the disclaimer at the beginning of this appendix.		


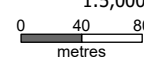


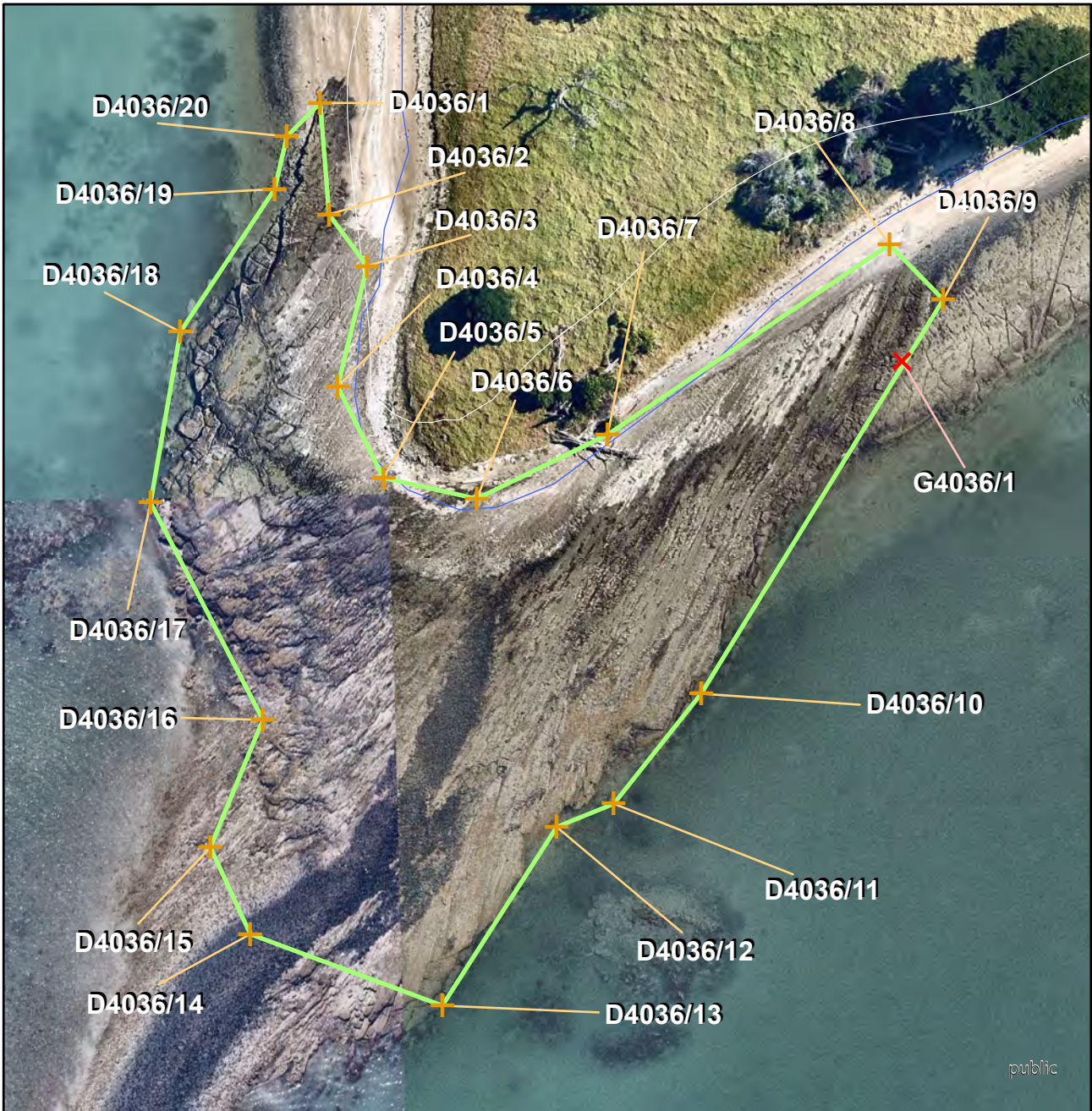
Geology	Name of item: Anadara fossil locality and Queen Victoria rock stack	Map reference: 30-15
UID : 4092 Island : Rangitoto Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: The outcrop is an unusual small lava rock stack in shape of Queen Victoria. The fossil locality is an approximately 5m x 1m block of fossil-bearing sediment containing shells of Sydney mud cockle (Anadara) which is now extinct in New Zealand.	Reasons: A,B,C,D,e.g,H,I Category: B 
GPS points (NZTM)		Digitised points (NZTM)
		1) D4092/1 E174 49 40.34041, S36 46 47.42988 2) D4092/2 E174 49 26.51710, S36 47 09.21393 3) D4092/3 E174 49 23.32628, S36 47 09.44921 4) D4092/4 E174 49 17.91642, S36 46 52.85810 5) D4092/5 E174 49 33.43425, S36 46 44.48665
<p style="color: red;">Refer to the disclaimer at the beginning of this appendix.</p>		



Geology	Name of item: Finger lava	Map reference: 30-16
UID : 4095 Island : Rangitoto Feature type : Smaller more fragile landforms	Surrounds protected: N Description of item: One of the best examples of branching lava flow fingers formed at the toe of a lava flow as it flowed from land to the sea - transitional to pillow lavas.	Reasons: A,B,C,D,e,f,g,h,i,j Category: A  1:1,000 0 5 10 metres
GPS points (NZTM)		Digitised points (NZTM)
1) G4095/1 E174 51 43.56690, S36 48 28.44419		1) D4095/1 E174 51 43.45313, S36 48 29.04774 2) D4095/2 E174 51 43.59448, S36 48 28.04233 3) D4095/3 E174 51 43.91354, S36 48 27.85672 4) D4095/4 E174 51 44.49435, S36 48 28.28373
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>		

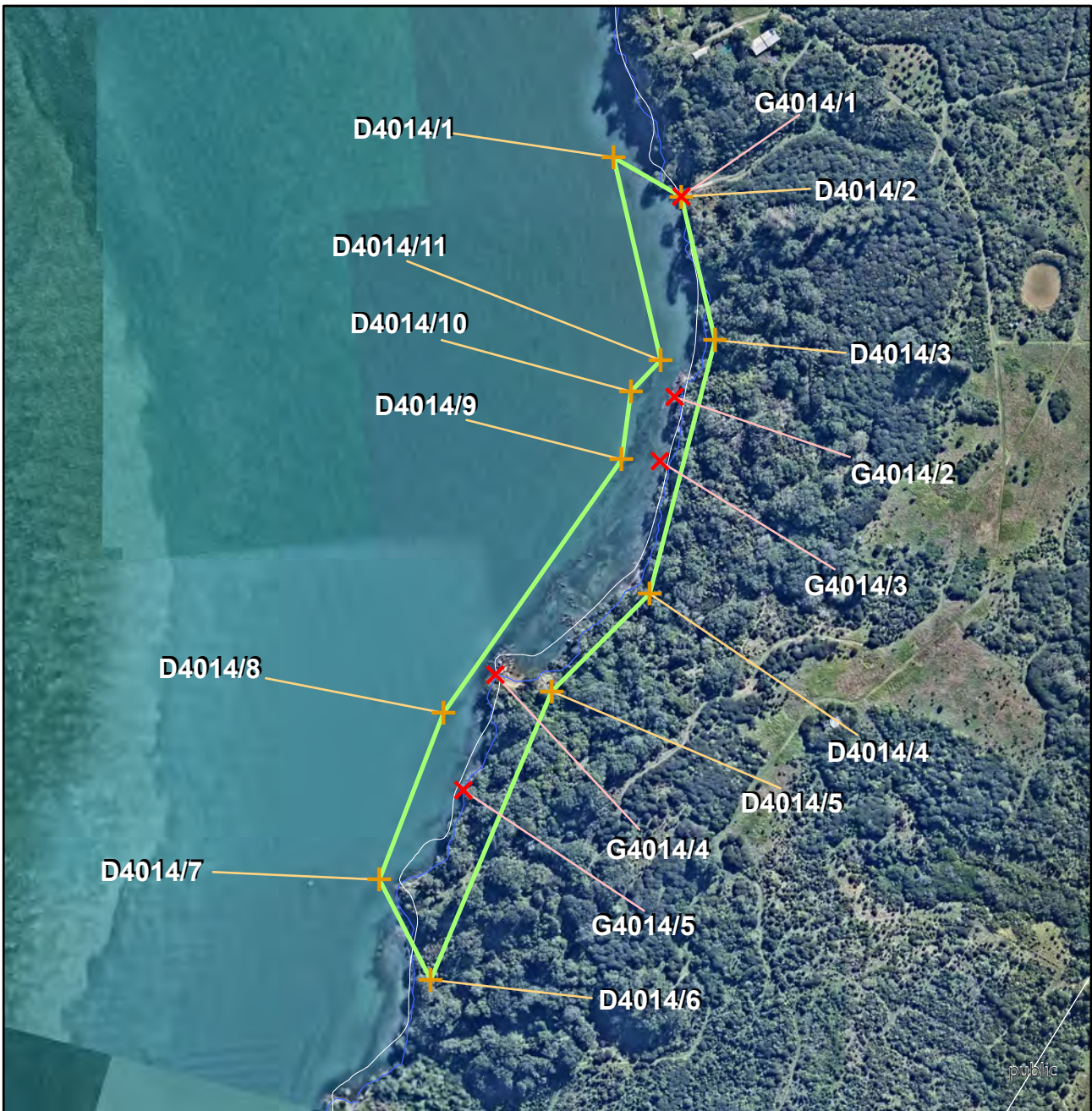


Geology	Name of item: Scoria cones	Map reference: 30-17
UID : 4013 Island : Motukorea (Browns) Feature type : Large landforms	Surrounds protected: N Description of item: Excellent example of a scoria cone with a large deep crater and small surrounding hills. One of the best preserved in Auckland, one of the few that has had no quarrying.	Reasons: A,b,c,D,E,F,G,H,I,j,K Category: A  1:5,000 
GPS points (NZTM)		Digitised points (NZTM)
<p>Refer to the disclaimer at the beginning of this appendix.</p>		1) D4013/1 E174 53 42.10690, S36 49 39.22807 2) D4013/2 E174 53 47.00710, S36 49 42.04598 3) D4013/3 E174 53 48.88071, S36 49 44.08709 4) D4013/4 E174 53 48.14322, S36 49 50.90188 5) D4013/5 E174 53 49.35725, S36 49 52.82189 6) D4013/6 E174 53 45.73783, S36 49 55.43700 7) D4013/7 E174 53 34.78052, S36 49 52.84106 8) D4013/8 E174 53 28.46340, S36 49 45.80268 9) D4013/9 E174 53 29.54957, S36 49 43.67708 10) D4013/10 E174 53 33.57725, S36 49 42.50894 11) D4013/11 E174 53 37.14775, S36 49 44.64197 12) D4013/12 E174 53 37.59707, S36 49 41.33506 13) D4013/13 E174 53 39.34167, S36 49 39.95811

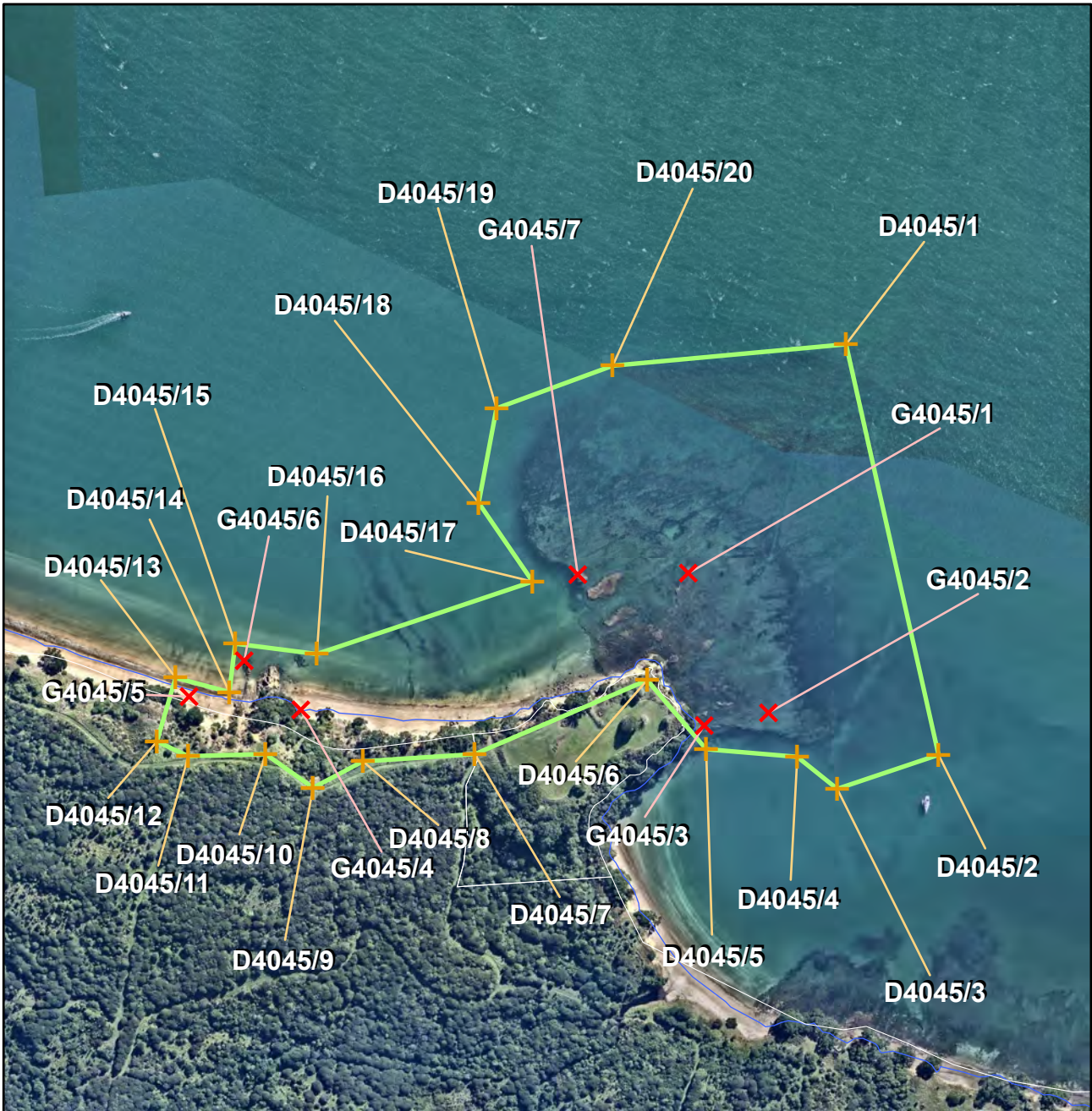



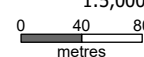
Geology		Name of item: Type locality for Motukoreaite		Map reference: 30-18	
UID : 4036 Island : Motukorea (Browns) Feature type : Fragile exposures of geological material		Surrounds protected: N Description of item: Mineral motukoreaite type locality.		Reasons: A,B,C,D,H,I,j,l Category: A	
GPS points (NZTM) 1) G4036/1 E174 53 33.83504, S36 50 09.01916			Digitised points (NZTM) 1) D4036/1 E174 53 30.13357, S36 50 07.76676 2) D4036/2 E174 53 30.20344, S36 50 08.33241 3) D4036/3 E174 53 30.45061, S36 50 08.58928 4) D4036/4 E174 53 30.27878, S36 50 09.20329 5) D4036/5 E174 53 30.57989, S36 50 09.66234 6) D4036/6 E174 53 31.17069, S36 50 09.75937 7) D4036/7 E174 53 31.98902, S36 50 09.42052 8) D4036/8 E174 53 33.74309, S36 50 08.42859 9) D4036/9 E174 53 34.08881, S36 50 08.70222 10) D4036/10 E174 53 32.61104, S36 50 10.72537 11) D4036/11 E174 53 32.07300, S36 50 11.29195 12) D4036/12 E174 53 31.71669, S36 50 11.41600 13) D4036/13 E174 53 31.01703, S36 50 12.33424 14) D4036/14 E174 53 29.79581, S36 50 11.98966 15) D4036/15 E174 53 29.53366, S36 50 11.55330 16) D4036/16 E174 53 29.84941, S36 50 10.90203 17) D4036/17 E174 53 29.11333, S36 50 09.81172 18) D4036/18 E174 53 29.27985, S36 50 08.94243 19) D4036/19 E174 53 29.85695, S36 50 08.20870 20) D4036/20 E174 53 29.92676, S36 50 07.94042		

Refer to the disclaimer at the beginning of this appendix.

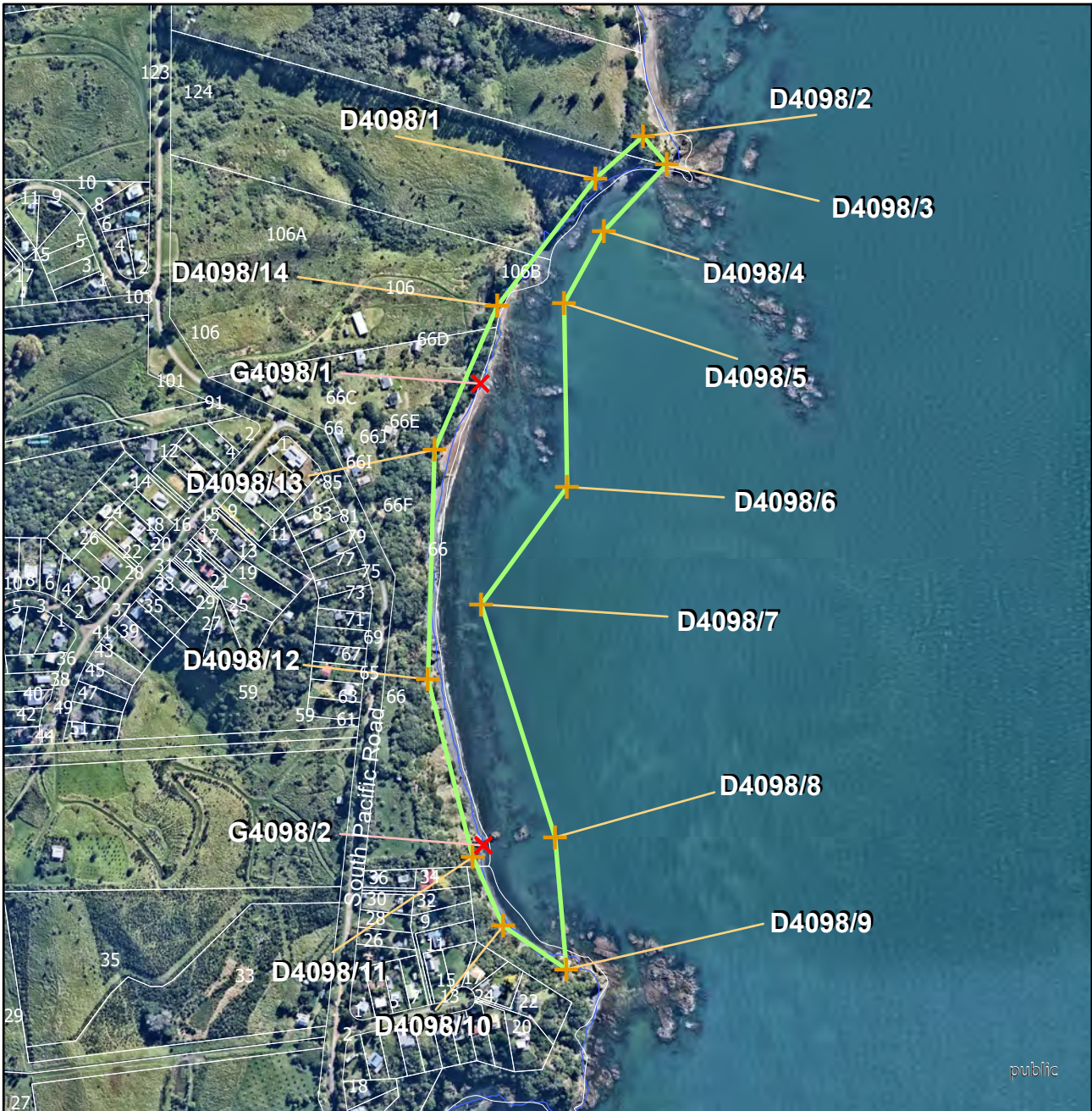



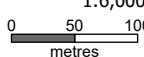
Geology		Name of item: Limestone Point rock sequence		Map reference: 31-1	
UID : 4014 Island : Motuihe Feature type : Smaller more fragile landforms		Surrounds protected: N Description of item: Unusual stratigraphic section and unique sequence in basal Waitemata group sediments and fossils		Reasons: A,B,C,D,E,f,g,H,I,j Category: A	
GPS points (NZTM) 1) G4014/1 E174 56 34.80833, S36 48 42.15754 2) G4014/2 E174 56 34.70376, S36 48 48.25750 3) G4014/3 E174 56 34.20115, S36 48 50.22256 4) G4014/4 E174 56 28.13845, S36 48 56.82592 5) G4014/5 E174 56 27.01629, S36 49 00.35835			Digitised points (NZTM) 1) D4014/1 E174 56 32.21197, S36 48 41.00172 2) D4014/2 E174 56 34.80833, S36 48 42.15754 3) D4014/3 E174 56 36.20062, S36 48 46.50558 4) D4014/4 E174 56 33.91278, S36 48 54.25885 5) D4014/5 E174 56 30.28798, S36 48 57.29313 6) D4014/6 E174 56 25.92988, S36 49 06.14888 7) D4014/7 E174 56 23.91126, S36 49 03.13499 8) D4014/8 E174 56 26.20611, S36 48 58.01519 9) D4014/9 E174 56 32.75026, S36 48 50.19124 10) D4014/10 E174 56 33.05344, S36 48 48.12172 11) D4014/11 E174 56 34.15917, S36 48 47.14945		
<p style="color: red; text-align: center;">Refer to the disclaimer at the beginning of this appendix.</p>					



Geology		Name of item: East Ocean Beach rock sequence		Map reference: 31-2	
UID : 4045 Island : Motuihe Feature type : Exposures of geological material		Surrounds protected: N Description of item: Cliff and shore platform. One of the best exposed transitions from shallow water basal Waitemata sediment sections through bathyal sandstone to deep bathyal Waitemata Sandstone and Parnell Grit beds.		Reasons: A,B,C,D,E,f,g,H,I,j Category: B	
			 1:5,000 		
GPS points (NZTM)			Digitised points (NZTM)		
1) G4045/1 E174 57 07.55282, S36 48 22.37173 2) G4045/2 E174 57 10.17165, S36 48 25.87525 3) G4045/3 E174 57 08.15384, S36 48 26.23071 4) G4045/4 E174 56 55.42514, S36 48 26.04014 5) G4045/5 E174 56 51.89252, S36 48 25.76156 6) G4045/6 E174 56 53.60878, S36 48 24.82332 7) G4045/7 E174 57 04.06979, S36 48 22.46617			1) D4045/1 E174 57 12.38377, S36 48 16.48479 2) D4045/2 E174 57 15.56149, S36 48 26.85016 3) D4045/3 E174 57 12.38787, S36 48 27.76521 4) D4045/4 E174 57 11.10794, S36 48 26.97487 5) D4045/5 E174 57 08.23312, S36 48 26.82893 6) D4045/6 E174 57 06.32542, S36 48 25.10437 7) D4045/7 E174 57 00.93915, S36 48 27.07076 8) D4045/8 E174 56 57.41855, S36 48 27.31021 9) D4045/9 E174 56 55.85867, S36 48 28.01071 10) D4045/10 E174 56 54.34235, S36 48 27.17819 11) D4045/11 E174 56 51.90356, S36 48 27.27088 12) D4045/12 E174 56 50.90499, S36 48 26.91573 13) D4045/13 E174 56 51.45591, S36 48 25.28498 14) D4045/14 E174 56 53.16072, S36 48 25.62803 15) D4045/15 E174 56 53.31755, S36 48 24.39377 16) D4045/16 E174 56 55.89410, S36 48 24.61107 17) D4045/17 E174 57 02.64805, S36 48 22.66417 18) D4045/18 E174 57 00.89782, S36 48 20.69500 19) D4045/19 E174 57 01.40482, S36 48 18.28917 20) D4045/20 E174 57 05.03643, S36 48 17.14625		

Refer to the disclaimer at the beginning of this appendix.

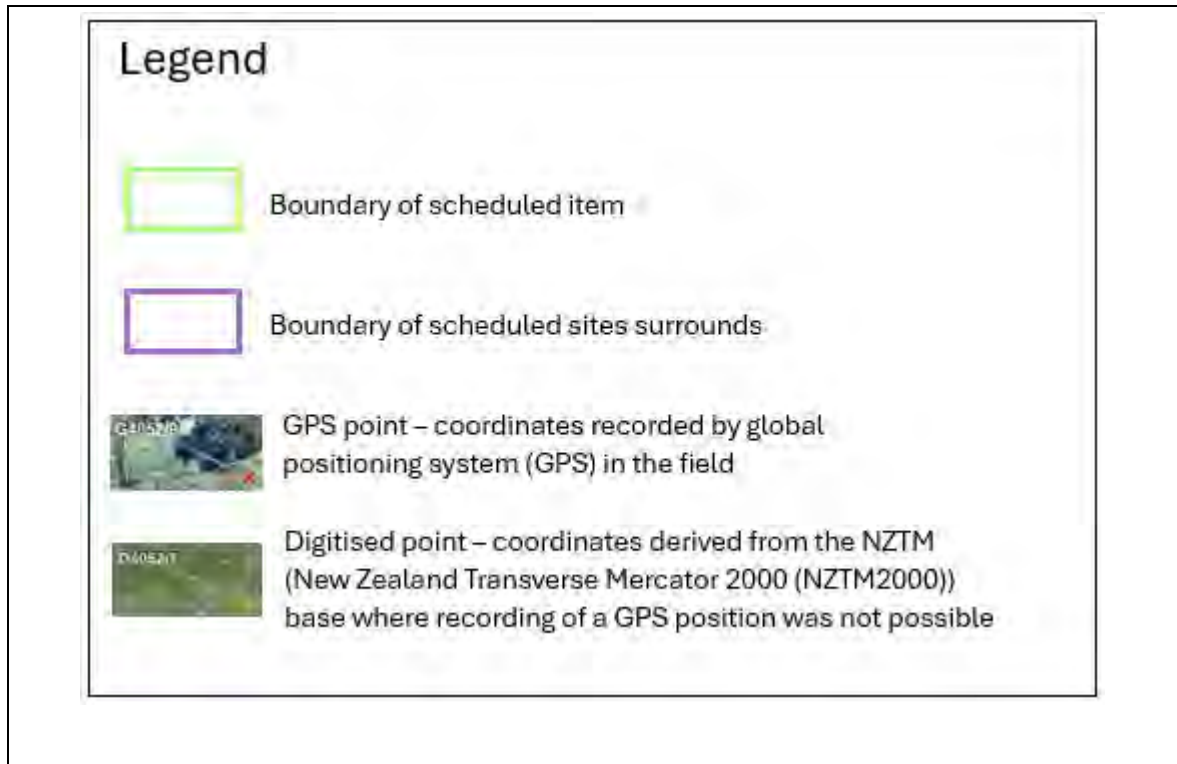


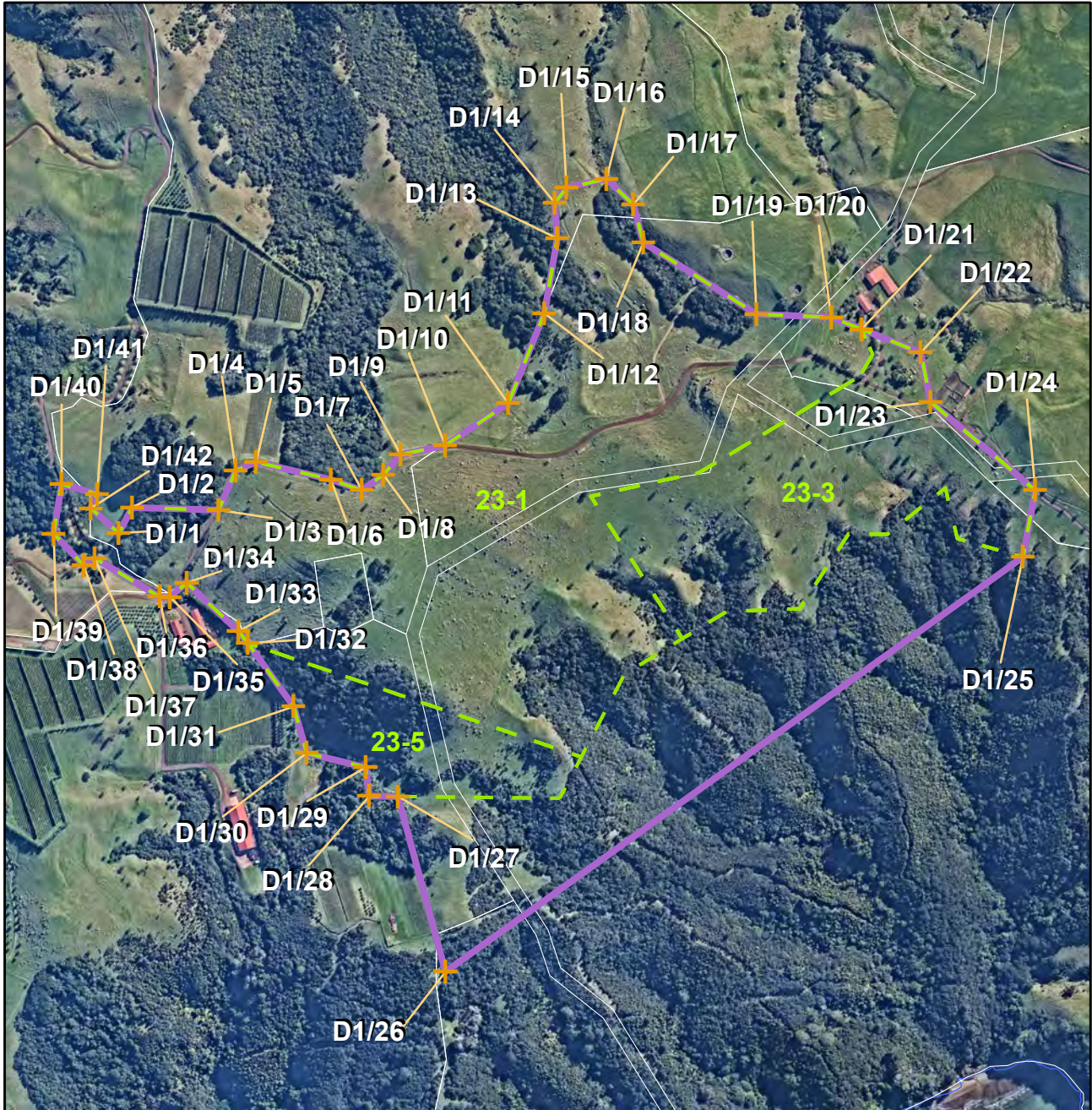
Geology		Name of item: Maori Bay rock sequence		Map reference: 33-1	
UID : 4098 Island : Rakino Feature type : Exposures of geological material		Surrounds protected: N Description of item: An 800m long section of cliff and shoreline consisting of red cherts, laminated argillite, red, green and grey argillites, basal Waitematas in a 100m depression in the ancient greywacke and a rare beach of smooth argillite cobbles.		Reasons: a,B,C,D,E,f,g,H,I,j Category: B	
				 1:6,000 	
GPS points (NZTM)			Digitised points (NZTM)		
1) G4098/1 E174 57 07.64769, S36 43 03.46933 2) G4098/2 E174 57 08.11551, S36 43 17.50182			1) D4098/1 E174 57 11.83985, S36 42 57.16583 2) D4098/2 E174 57 13.60236, S36 42 55.85314 3) D4098/3 E174 57 14.52088, S36 42 56.68828 4) D4098/4 E174 57 12.19851, S36 42 58.74997 5) D4098/5 E174 57 10.74844, S36 43 00.97498 6) D4098/6 E174 57 10.99916, S36 43 06.55684 7) D4098/7 E174 57 07.84805, S36 43 10.17938 8) D4098/8 E174 57 10.81963, S36 43 17.20819 9) D4098/9 E174 57 11.34596, S36 43 21.21388 10) D4098/10 E174 57 08.92920, S36 43 19.93503 11) D4098/11 E174 57 07.72118, S36 43 17.85811 12) D4098/12 E174 57 05.89206, S36 43 12.49205 13) D4098/13 E174 57 05.96682, S36 43 05.51419 14) D4098/14 E174 57 08.22314, S36 43 01.09923		
Refer to the disclaimer at the beginning of this appendix.					

This page is left blank intentionally.

Refer to the disclaimer at the beginning of this appendix.

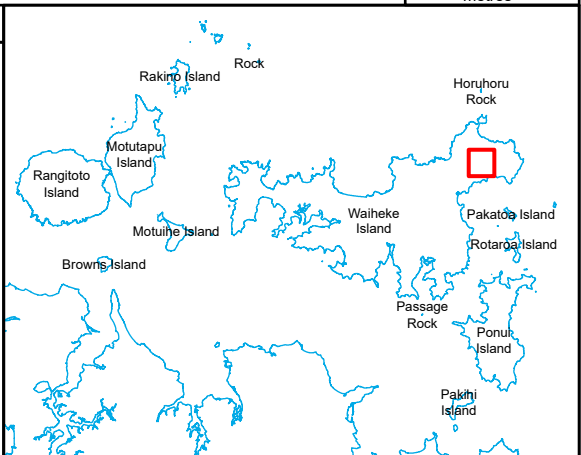
5.0 Diagrams of site surrounds for scheduled geological items





Geology	Name of item: SITE SURROUNDS 1	Map reference: 23-28
	Scheduled geological items:	 N 1: 10,000 0 65 130 metres
UID : 1	23-1 23-3 23-5	
Island : Waiheke		

Digitised points (NZTM)	
1) D1/1 E175 09 51.58437, S36 45 57.46526	23) D1/23E175 10 42.63701, S36 45 49.86373
2) D1/2E175 09 52.38580, S36 45 56.13994	24) D1/24E175 10 49.36974, S36 45 54.22852
3) D1/3E175 09 57.84947, S36 45 56.16877	25) D1/25E175 10 48.68091, S36 45 57.63245
4) D1/4E175 09 58.88344, S36 45 54.14403	26) D1/26E175 10 12.84053, S36 46 19.34382
5) D1/5E175 10 00.15460, S36 45 53.69361	27) D1/27E175 10 09.58501, S36 46 10.50850
6) D1/6E175 10 04.89776, S36 45 54.49182	28) D1/28E175 10 07.77044, S36 46 10.52586
7) D1/7E175 10 06.86773, S36 45 55.00519	29) D1/29E175 10 07.50905, S36 46 09.05846
8) D1/8E175 10 08.19807, S36 45 54.18493	30) D1/30E175 10 03.75928, S36 46 08.41084
9) D1/9E175 10 09.26126, S36 45 53.15062	31) D1/31E175 10 02.86521, S36 46 06.05749
10) D1/10E175 10 12.06113, S36 45 52.62522	32) D1/32E175 09 59.88673, S36 46 02.89382
11) D1/11E175 10 15.98411, S36 45 50.41982	33) D1/33E175 09 59.28165, S36 46 02.30197
12) D1/12E175 10 18.12761, S36 45 45.80961	34) D1/34E175 09 55.94427, S36 45 59.89860
13) D1/13E175 10 18.83742, S36 45 41.98930	35) D1/35E175 09 54.90262, S36 46 00.63909
14) D1/14E175 10 18.62410, S36 45 40.18541	36) D1/36E175 09 54.25465, S36 46 00.64550
15) D1/15E175 10 19.34913, S36 45 39.40964	37) D1/37E175 09 50.09898, S36 45 58.75455
16) D1/16E175 10 21.85580, S36 45 38.91566	38) D1/38E175 09 49.41785, S36 45 59.13901
17) D1/17E175 10 23.58957, S36 45 40.18133	39) D1/39E175 09 47.47511, S36 45 57.55512
18) D1/18E175 10 24.27923, S36 45 42.10259	40) D1/40E175 09 47.89983, S36 45 55.03500
19) D1/19E175 10 31.52045, S36 45 45.60534	41) D1/41E175 09 50.17144, S36 45 55.49539
20) D1/20E175 10 36.24726, S36 45 45.67955	42) D1/42E175 09 49.79139, S36 45 56.22693
21) D1/21E175 10 38.17228, S36 45 46.25274	
22) D1/22E175 10 41.93810, S36 45 47.37448	



Refer to the disclaimer at the beginning of this appendix.